

**ANEXO DE CÁLCULO  
INSTALACIÓN DE CLIMATIZACIÓN**



## **ÍNDICE**

- 1.- Cálculos
  - 1.1.- Cálculos de cargas térmicas sistemas
  - 1.2.- Cálculos de cargas térmicas locales
  - 1.3.- Cálculos de tuberías
  - 1.4.- Cálculos de conductos
- 2.- Características Técnicas de los Equipos
  - 2.1.- Climatizadores
  - 2.2.- Bombas
  - 2.3.- Fancoils
  - 2.4.- Ventiladores
  - 2.5.- Vasos de expansión
  - 2.6.-Enfriadoras



## **1.- CÁLCULOS**



## **1.1.- CÁLCULOS DE CARGAS TÉRMICAS SISTEMAS**



System Checksums

By GOCSA

AP0001-CONSULTAS OFT

Single Zone

| COOLING COIL PEAK               |  |  |  |  |   |  |  |  |  | CLG SPACE PEAK               |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK |  |  |  |  |            |  |  |  |  | TEMPERATURES |  |  |  |  |          |  |  |  |  |        |  |  |  |  |          |  |  |  |  |          |  |  |  |  |          |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  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| Sens. + Lat.                    |  |  |  |  | Plenum                                    |  |  |  |  | Net                          |  |  |  |  | Space                             |  |  |  |  | Percent           |  |  |  |  | Space Peak |  |  |  |  | Coil Peak    |  |  |  |  | Percent  |  |  |  |  | Ret/OA |  |  |  |  | Fm MtrTD |  |  |  |  | Fm BldTD |  |  |  |  | Fm Frict |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  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| Envelope Loads                  |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  | Envelope Loads    |  |  |  |  |            |  |  |  |  |              |  |  |  |  |          |  |  |  |  |        |  |  |  |  |          |  |  |  |  |          |  |  |  |  |          |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  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| Skylite Solar                   |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  | Skylite Solar     |  |  |  |  |            |  |  |  |  |              |  |  |  |  |          |  |  |  |  | 0.00   |  |  |  |  |          |  |  |  |  |          |  |  |  |  |          |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



System Checksums

By GOCSA

AP0203-MANTENIMIENTO PAB\_C

Single Zone

| COOLING COIL PEAK               |                 |                     |          | CLG SPACE PEAK                            |      |          |                  | HEATING COIL PEAK                 |                  |                             |                            |
|---------------------------------|-----------------|---------------------|----------|---|------|----------|------------------|-----------------------------------|------------------|-----------------------------|----------------------------|
| Peaked at Time:<br>Outside Air: |                 |                     |          | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |      |          |                  | Mo/Hr: Heating Design<br>OADB: -5 |                  |                             |                            |
| Total Capacity<br>kW            | Sens Cap.<br>kW | Coil Airflow<br>L/s | Enter °C | DB/WB/HR<br>°C                            | g/kg | Leave °C | DB/WB/HR<br>g/kg | Space Sens.<br>kW                 | Space Peak<br>kW | Coil Peak<br>Tot Sens<br>kW | Percent<br>Of Total<br>(%) |
| Envelope Loads                  | 22.10           | 22.10               | 36.5     | 21.6                                      | 11.5 | 22.7     | 17.5             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.0      | 0.0                                       | 0.0  | 0.0      | 0.0              | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.0      | 0.0                                       | 0.0  | 0.0      | 0.0              | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.0      | 0.0                                       | 0.0  | 0.0      | 0.0              | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.0      | 0.0                                       | 0.0  | 0.0      | 0.0              | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.0      | 0.0                                       | 0.0  | 0.0      | 0.0              | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.0      | 0.0                                       | 0.0  | 0.0      | 0.0              | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.0      | 0.0                                       | 0.0  | 0.0      | 0.0              | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.0      | 0.0                                       | 0.0  | 0.0      | 0.0              | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.0      | 0.0                                       | 0.0  | 0.0      | 0.0              | 0.00                              | 0.00             | 0.00                        | 0.00                       |
| Sub Total ==>                   |                 |                     |          | 0.00                                      |      |          |                  | 0.00                              |                  |                             |                            |
| Internal Loads                  | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
| Sub Total ==>                   |                 |                     |          | 0.00                                      |      |          |                  | 0.00                              |                  |                             |                            |
| Ceiling Load                    | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0               | 0                   | 0        | 0   | 0    | 0        | 0                | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
|                                 | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00 | 0.00     | 0.00             | 0.00                              | 0.00             | 0.00                        | 0.00                       |
| Sub Total ==>                   |                 |                     |          | 0.00                                      |      |          |                  | 0.00                              |                  |                             |                            |
| Grand Total ==>                 |                 |                     |          | 22.10                                     |      |          |                  | 0.00                              |                  |                             |                            |
| Grand Total ==>                 |                 |                     |          | 22.10                                     |      |          |                  | 0.00                              |                  |                             |                            |

| TEMPERATURES |         |         |  |
|--------------|---------|---------|--|
| SADB         | Cooling | Heating |  |
| Plenum       | 24.0    | 22.0    |  |
| Return       | 24.9    | 22.0    |  |
| Ret/OA       | 36.5    | -4.9    |  |
| Fn MtrTD     | 0.1     | 0.0     |  |
| Fn BldTD     | 0.3     | 0.0     |  |
| Fn Frict     | 0.9     | 0.0     |  |

| AIRFLOWS   |         |         |  |
|------------|---------|---------|--|
| Vent       | Cooling | Heating |  |
| Infil      | 1,400   | 1,400   |  |
| Supply     | 1,400   | 1,400   |  |
| MinStop/Rh | 0       | 0       |  |
| Return     | 1,400   | 1,400   |  |
| Exhaust    | 1,400   | 1,400   |  |
| Rm Exh     | 0       | 0       |  |
| Auxiliary  | 0       | 0       |  |

| ENGINEERING CKS |          |           |  |
|-----------------|----------|-----------|--|
| % OA            | Cooling  | Heating   |  |
| Lps/m²          | 100.0    | 100.0     |  |
| Lps/kW          | 150.70   | 150.70    |  |
| m²/kW           | 63.35    |           |  |
| W/m²            | 0.42     |           |  |
| No. People      | 2,377.45 | -4,639.46 |  |
|                 | 0        |           |  |

| COOLING COIL SELECTION |                 |                     |          |                |      |          |                  |
|------------------------|-----------------|---------------------|----------|----------------|------|----------|------------------|
| Total Capacity<br>kW   | Sens Cap.<br>kW | Coil Airflow<br>L/s | Enter °C | DB/WB/HR<br>°C | g/kg | Leave °C | DB/WB/HR<br>g/kg |
| 22.10                  | 22.10           | 1,400.2             | 36.5     | 21.6           | 11.5 | 22.7     | 17.5             |
| 0.00                   | 0.00            | 0.0                 | 0.0      | 0.0            | 0.0  | 0.0      | 0.0              |
| 0.00                   | 0.00            | 0.0                 | 0.0      | 0.0            | 0.0  | 0.0      | 0.0              |
| Total                  |                 |                     |          |                |      |          |                  |
| 22.10                  |                 |                     |          |                |      |          |                  |

| AREAS       |       |   | Glass<br>m² | (%) |
|-------------|-------|---|-------------|-----|
| Gross Total | Floor | 9 |             |     |
|             | Part  | 0 |             |     |
|             | ExFlr | 0 |             |     |
|             | Roof  | 0 | 0           | 0   |
|             | Wall  | 0 | 0           | 0   |

| HEATING COIL SELECTION |                     |        |        |  |
|------------------------|---------------------|--------|--------|--|
| Capacity<br>kW         | Coil Airflow<br>L/s | Ent °C | Lvg °C |  |
| -43.1                  | 1,400.2             | -4.9   | 22.0   |  |
| 0.0                    | 0                   | 0      | 0      |  |
| -44.3                  | 1,400               | -5     | 23     |  |
| 0.0                    | 0                   | 0.0    | 0.0    |  |
| 0.0                    | 0                   | 0.0    | 0.0    |  |
| Total                  |                     |        |        |  |
| -43.1                  |                     |        |        |  |



# System Checksums

By GOC SA

**AP0205-ADMINISTRACION**

## Single Zone

| COOLING COIL PEAK   |  |       |                | CLG SPACE PEAK            |              |             |              | HEATING COIL PEAK              |             |              |  | TEMPERATURES |  |  |  |                  |  |  |  |         |  |  |  |
|---|--|-------|----------------|---------------------------|--------------|-------------|--------------|--------------------------------|-------------|--------------|--|--------------|--|--|--|------------------|--|--|--|---------|--|--|--|
| Peaked at Time: Outside Air: OADB/WB/HR: 36 / 22 / 11 Mo/Hr: 7 / 15 |  |       |                | Mo/Hr: Sum of OADB: Peaks |              |             |              | Mo/Hr: Heating Design OADB: -5 |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Sens. + Lat.  |  | Space | Plenum         | Net                       | Percent      | Space       | Percent      | Space Peak                     | Coil Peak   | Percent      |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Sens. + Lat. kW   |  | kW    | Sens. + Lat kW | Total kW                  | Of Total (%) | Sensible kW | Of Total (%) | Space Sens kW                  | Tot Sens kW | Of Total (%) |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Envelope Loads  |  |       |                |                           |              |             |              |                                |             |              |  | AIRFLOWS     |  |  |  | ENGINEERING CKS  |  |  |  |         |  |  |  |
| Skylite Solar   |  |       |                |                           |              |             |              |                                |             |              |  | Vent         |  |  |  | Cooling          |  |  |  | Heating |  |  |  |
| Skylite Cond  |  |       |                |                           |              |             |              |                                |             |              |  | Infil        |  |  |  | 600              |  |  |  | 600     |  |  |  |
| Roof Cond   |  |       |                |                           |              |             |              |                                |             |              |  | Supply       |  |  |  | 0                |  |  |  | 0       |  |  |  |
| Glass Solar   |  |       |                |                           |              |             |              |                                |             |              |  | MinStop/Rh   |  |  |  | 0                |  |  |  | 0       |  |  |  |
| Glass Cond  |  |       |                |                           |              |             |              |                                |             |              |  | Return       |  |  |  | 600              |  |  |  | 600     |  |  |  |
| Wall Cond   |  |       |                |                           |              |             |              |                                |             |              |  | Exhaust      |  |  |  | 600              |  |  |  | 600     |  |  |  |
| Partition   |  |       |                |                           |              |             |              |                                |             |              |  | Rm Exh       |  |  |  | 0                |  |  |  | 0       |  |  |  |
| Exposed Floor   |  |       |                |                           |              |             |              |                                |             |              |  | Auxiliary    |  |  |  | 0                |  |  |  | 0       |  |  |  |
| Infiltration  |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Sub Total ==>   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Internal Loads  |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Lights  |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| People  |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Misc  |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Sub Total ==>   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Ceiling Load  |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Ventilation Load  |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Adj Air Trans Heat  |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Dehumid. Ov Sizing  |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Ov/Undr Sizing  |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Exhaust Heat  |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Sup. Fan Heat   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Ret. Fan Heat   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Duct Heat PkUp  |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Reheat at Design  |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Grand Total ==>   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
| Total Capacity kW   |  |       |                |                           |              |             |              |                                |             |              |  | Sens Cap. kW |  |  |  | Coil Airflow L/s |  |  |  | Lvlg °C |  |  |  |
| 9.47  |  |       |                |                           |              |             |              |                                |             |              |  | 9.47         |  |  |  | 600.1            |  |  |  | 22.0    |  |  |  |
| 0.00  |  |       |                |                           |              |             |              |                                |             |              |  | 0.00         |  |  |  | 0.0              |  |  |  | -4.9    |  |  |  |
| 0.00  |  |       |                |                           |              |             |              |                                |             |              |  | 0.00         |  |  |  | 600              |  |  |  | 0       |  |  |  |
| 9.47  |  |       |                |                           |              |             |              |                                |             |              |  | 0.00         |  |  |  | -19.0            |  |  |  | -5      |  |  |  |
| Total/  |  |       |                |                           |              |             |              |                                |             |              |  | 9.47         |  |  |  | 0.0              |  |  |  | 0.0     |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |
|   |  |       |                |                           |              |             |              |                                |             |              |  |              |  |  |  |                  |  |  |  |         |  |  |  |



System Checksums

By GOCSA

AP0209-AUXILIAR HD Y BQ

Single Zone

| COOLING COIL PEAK                     |              |      |        | CLG SPACE PEAK |         |       |         | HEATING COIL PEAK     |           |         |          | TEMPERATURES |         |              |       |                 |          |            |          |          |         |
|---------------------------------------|--------------|------|--------|----------------|---------|-------|---------|-----------------------|-----------|---------|----------|--------------|---------|--------------|-------|-----------------|----------|------------|----------|----------|---------|
| Peaked at Time: Mo/Hr: 7 / 15         |              |      |        | Mo/Hr: Sum of  |         |       |         | Mo/Hr: Heating Design |           |         |          |              |         |              |       |                 |          |            |          |          |         |
| Outside Air: OADB/WB/HR: 36 / 22 / 11 |              |      |        | OADB: Peaks    |         |       |         | OADB: -5              |           |         |          |              |         |              |       |                 |          |            |          |          |         |
| Envelope Loads                        | Space        |      | Plenum | Net            | Percent | Space | Percent | Space Peak            | Coil Peak | Percent | SADB     | Cooling      | Heating |              |       |                 |          |            |          |          |         |
|                                       | Sens. + Lat. | kW   |        |                |         |       |         |                       |           |         |          |              |         | Sens. + Lat. | kW    | Of Total        | (%)      | Space Sens | Tot Sens | Of Total | (%)     |
| Skylite Solar                         | 0.00         | 0.00 | 0.00   | 0.00           | 0.00    | 0.00  | 0.00    | 0.00                  | 0.00      | 0.00    | 0.00     | 24.0         | 22.0    |              |       |                 |          |            |          |          |         |
| Skylite Cond                          | 0.00         | 0.00 | 0.00   | 0.00           | 0.00    | 0.00  | 0.00    | 0.00                  | 0.00      | 0.00    | Plenum   | 24.0         | 22.0    |              |       |                 |          |            |          |          |         |
| Roof Cond                             | 0.00         | 0.00 | 0.00   | 0.00           | 0.00    | 0.00  | 0.00    | 0.00                  | 0.00      | 0.00    | Return   | 24.9         | 22.0    |              |       |                 |          |            |          |          |         |
| Glass Solar                           | 0.00         | 0.00 | 0.00   | 0.00           | 0.00    | 0.00  | 0.00    | 0.00                  | 0.00      | 0.00    | Ret/OA   | 36.5         | -4.9    |              |       |                 |          |            |          |          |         |
| Glass Cond                            | 0.00         | 0.00 | 0.00   | 0.00           | 0.00    | 0.00  | 0.00    | 0.00                  | 0.00      | 0.00    | Fn MtrTD | 0.2          | 0.0     |              |       |                 |          |            |          |          |         |
| Wall Cond                             | 0.00         | 0.00 | 0.00   | 0.00           | 0.00    | 0.00  | 0.00    | 0.00                  | 0.00      | 0.00    | Fn BldTD | 0.4          | 0.0     |              |       |                 |          |            |          |          |         |
| Partition                             | 0.00         | 0.00 | 0.00   | 0.00           | 0.00    | 0.00  | 0.00    | 0.00                  | 0.00      | 0.00    | Fn Frict | 1.1          | 0.0     |              |       |                 |          |            |          |          |         |
| Exposed Floor                         | 0.00         | 0.00 | 0.00   | 0.00           | 0.00    | 0.00  | 0.00    | 0.00                  | 0.00      | 0.00    | AIRFLOWS |              |         |              |       |                 |          |            |          |          |         |
| Infiltration                          | 0.00         | 0.00 | 0.00   | 0.00           | 0.00    | 0.00  | 0.00    | 0.00                  | 0.00      | 0.00    |          |              |         | Cooling      | 1,500 | Heating         |          |            |          |          |         |
| Sub Total ==>                         | 0.00         | 0.00 | 0.00   | 0.00           | 0.00    | 0.00  | 0.00    | 0.00                  | 0.00      | 0.00    |          |              |         | Vent         | 1,500 | 1,500           |          |            |          |          |         |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         | Infil        | 0     | 0               |          |            |          |          |         |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         | Supply       | 1,500 | 1,500           |          |            |          |          |         |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         |              |       | MinStop/Rh      | 0        | 0          |          |          |         |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         |              |       | Return          | 1,500    | 1,500      |          |          |         |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         |              |       | Exhaust         | 1,500    | 1,500      |          |          |         |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         |              |       | Rm Exh          | 0        | 0          |          |          |         |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         |              |       | Auxiliary       | 0        | 0          |          |          |         |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         |              |       | ENGINEERING CKS |          |            |          |          |         |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         |              |       |                 |          |            | % OA     | Cooling  | Heating |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         |              |       |                 |          |            |          | 100.0    | 100.0   |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         |              |       |                 |          |            | Lps/m²   | 161.46   | 161.46  |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         |              |       |                 |          |            | Lps/kW   | 62.18    |         |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         |              |       | m²/kW           | 0.39     |            |          |          |         |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         |              |       | W/m²            | 2,594.95 | -4,970.85  |          |          |         |
|                                       |              |      |        |                |         |       |         |                       |           |         |          |              |         |              |       | No. People      | 0        |            |          |          |         |

TEMPERATURES

|          |         |         |
|----------|---------|---------|
| SADB     | Cooling | Heating |
| Plenum   | 24.0    | 22.0    |
| Return   | 24.0    | 22.0    |
| Ret/OA   | 36.5    | -4.9    |
| Fn MtrTD | 0.2     | 0.0     |
| Fn BldTD | 0.4     | 0.0     |
| Fn Frict | 1.1     | 0.0     |

AIRFLOWS

|            |         |         |
|------------|---------|---------|
| Vent       | Cooling | Heating |
| Infil      | 1,500   | 1,500   |
| Supply     | 0       | 0       |
| MinStop/Rh | 1,500   | 1,500   |
| Return     | 0       | 0       |
| Exhaust    | 1,500   | 1,500   |
| Rm Exh     | 0       | 0       |
| Auxiliary  | 0       | 0       |

ENGINEERING CKS

|            |          |           |
|------------|----------|-----------|
| % OA       | Cooling  | Heating   |
| Lps/m²     | 100.0    | 100.0     |
| Lps/kW     | 161.46   | 161.46    |
| m²/kW      | 62.18    | 62.18     |
| W/m²       | 0.39     | 0.39      |
| No. People | 2,594.95 | -4,970.85 |

COOLING COIL SELECTION

| Total Capacity<br>kW | Sens Cap.<br>kW | Coil Airflow<br>L/s | Enter<br>°C | DB/WB/HR<br>°C | g/kg | Leave DB/WB/HR<br>°C | g/kg |
|----------------------|-----------------|---------------------|-------------|----------------|------|----------------------|------|
| Main Clg             | 24.12           | 1,500.2             | 36.5        | 21.6           | 11.5 | 22.5                 | 17.4 |
| Aux Clg              | 0.00            | 0.00                | 0.0         | 0.0            | 0.0  | 0.0                  | 0.0  |
| Opt Vent             | 0.00            | 0.00                | 0.0         | 0.0            | 0.0  | 0.0                  | 0.0  |
| Total                | 24.12           |                     |             |                |      |                      |      |

AREAS

| Gross Total | Glass<br>m² | (%) |
|-------------|-------------|-----|
| Floor       | 9           |     |
| Part        | 0           |     |
| ExFlr       | 0           |     |
| Roof        | 0           | 0   |
| Wall        | 0           | 0   |

HEATING COIL SELECTION

| Capacity<br>kW | Coil Airflow<br>L/s | Ent<br>°C | Lvg<br>°C |
|----------------|---------------------|-----------|-----------|
| Main Htg       | -46.2               | 1,500.2   | -4.9      |
| Aux Htg        | 0.0                 | 0         | 0         |
| Preheat        | -47.0               | 1,500     | -5        |
| Humidif        | 0.0                 | 0         | 0.0       |
| Opt Vent       | 0.0                 | 0         | 0.0       |
| Total          | -46.2               |           |           |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 System Checksums Report 06/12/2024 4 de 37



System Checksums

By GOCSA

CL010102-PREPARACION LIMPIO OFT

Single Zone

| COOLING COIL PEAK               |              |              |          | CLG SPACE PEAK                            |          |       |          | HEATING COIL PEAK                 |          |           |          | TEMPERATURES       |         |         |  |
|---------------------------------|--------------|--------------|----------|---|----------|-------|----------|-----------------------------------|----------|-----------|----------|--------------------|---------|---------|--|
| Peaked at Time:<br>Outside Air: |              |              |          | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |          |       |          | Mo/Hr: Heating Design<br>OADB: -5 |          |           |          |                    |         |         |  |
| Total Capacity                  | Sens Cap.    | Coil Airflow | Enter    | DB/WB/HR                                  | g/kg     | °C    | °C       | Leave                             | DB/WB/HR | g/kg      | °C       | SADB               | Cooling | Heating |  |
| kW                              | kW           | L/s          | °C       | °C  | g/kg     | °C    | °C       | °C                                | °C       | g/kg      | °C       | Plenum             | 24.8    | 24.0    |  |
| Sens. + Lat.                    | Sens. + Lat. |              |          |   |          |       |          |                                   |          |           |          | Return             | 20.9    | 20.9    |  |
| kW                              | kW           |              |          |   |          |       |          |                                   |          |           |          | Ret/OA             | 36.5    | -4.9    |  |
| Space                           | Plenum       | Net          | Percent  | Space                                     | Percent  | Space | Percent  | Space                             | Percent  | Coil Peak | Percent  | Fn MtrTD           | 0.2     | 0.0     |  |
| Sens. + Lat.                    | Sens. + Lat. | Total        | Of Total | Sensible                                  | Of Total | Total | Of Total | Sensible                          | Of Total | Tot Sens  | Of Total | Fn BldTD           | 0.4     | 0.0     |  |
| kW                              | kW           | kW           | (%)      | kW  | (%)      | kW    | (%)      | kW                                | (%)      | kW        | (%)      | Fn Frict           | 1.1     | 0.0     |  |
| Envelope Loads                  |              |              |          |   |          |       |          |                                   |          |           |          |                    |         |         |  |
| Skyllite Solar                  | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00  | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | Skyllite Solar     | 0.00    | 0.00    |  |
| Skyllite Cond                   | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00  | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | Skyllite Cond      | 0.00    | 0.00    |  |
| Roof Cond                       | 0.00         | 1.71         | 3.26     | 0.00                                      | 0.00     | 0.00  | 0.00     | 0.00                              | 0.00     | 0.00      | -2.65    | Roof Cond          | 0.00    | 3.79    |  |
| Glass Solar                     | 0.36         | 0.36         | 0.69     | 0.78                                      | 9.17     | 0.69  | 0.00     | 0.78                              | 9.17     | 0.00      | 0.00     | Glass Solar        | 0.00    | 0.00    |  |
| Glass Cond                      | 0.04         | 0.04         | 0.08     | 0.01                                      | 0.12     | 0.08  | 0.00     | 0.01                              | 0.12     | -0.14     | 0.20     | Glass Cond         | 0.00    | 0.00    |  |
| Wall Cond                       | 0.03         | 0.04         | 0.08     | 0.05                                      | 0.59     | 0.08  | 0.00     | 0.05                              | 0.59     | -0.16     | 0.29     | Wall Cond          | 0.00    | 0.00    |  |
| Partition                       | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00  | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | Partition          | 0.00    | 0.00    |  |
| Exposed Floor                   | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00  | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | Exposed Floor      | 0.00    | 0.00    |  |
| Infiltration                    | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00  | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | Infiltration       | 0.00    | 0.00    |  |
| Sub Total ==>                   | 0.43         | 2.15         | 4.09     | 0.84                                      | 9.87     | 2.15  | 4.28     | 0.84                              | 9.87     | -0.30     | 4.28     | Sub Total ==>      | 0.00    | 0.00    |  |
| Internal Loads                  |              |              |          |   |          |       |          |                                   |          |           |          |                    |         |         |  |
| Lights                          | 1.88         | 0.34         | 4.23     | 1.88                                      | 22.09    | 0.34  | 0.00     | 1.88                              | 22.09    | 0.00      | 0.00     | Lights             | 0.00    | 0.00    |  |
| People                          | 4.17         | 0.00         | 7.94     | 2.23                                      | 26.20    | 0.00  | 0.00     | 2.23                              | 26.20    | 0.00      | 0.00     | People             | 0.00    | 0.00    |  |
| Misc                            | 3.19         | 0.00         | 6.08     | 3.19                                      | 37.49    | 0.00  | 0.00     | 3.19                              | 37.49    | 0.00      | 0.00     | Misc               | 0.00    | 0.00    |  |
| Sub Total ==>                   | 9.24         | 0.34         | 18.24    | 7.30                                      | 85.78    | 9.58  | 19.71    | 7.30                              | 85.78    | 0.00      | 0.00     | Sub Total ==>      | 0.00    | 0.00    |  |
| Engineering CKS                 |              |              |          |   |          |       |          |                                   |          |           |          |                    |         |         |  |
| Ceiling Load                    | 0.35         | -0.35        | 0.00     | 0.37                                      | 4.35     | 0.00  | 0.00     | 0.37                              | 4.35     | -0.49     | 0.00     | Ceiling Load       | 0.00    | 0.00    |  |
| Ventilation Load                | 0.00         | 0.00         | 70.04    | 0.00                                      | 0.00     | 36.78 | 79.16    | 0.00                              | 0.00     | 0.00      | -55.29   | Ventilation Load   | 0.00    | 79.16   |  |
| Adj Air Trans Heat              | 0            | 0            | 0        | 0   | 0        | 0     | 0        | 0                                 | 0        | 0         | 0        | Adj Air Trans Heat | 0.00    | 0       |  |
| Dehumid. Ov Sizing              | 0.00         | -3.41        | 2        | 0.00                                      | 0.00     | 2     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | Dehumid. Ov Sizing | 0.00    | 0.00    |  |
| Exhaust Heat                    | -3.41        | -3.41        | -6.49    | -3.41                                     | 0.00     | -3.41 | -3.15    | -3.41                             | 0.00     | 2.20      | -3.15    | Exhaust Heat       | 7.04    | 7.04    |  |
| Sup. Fan Heat                   | 3.19         | 3.19         | 6.08     | 3.19                                      | 0.00     | 6.08  | 0.00     | 3.19                              | 0.00     | 0.00      | 0.00     | Sup. Fan Heat      | 34.21   | 34.21   |  |
| Ret. Fan Heat                   | 1.86         | 1.86         | 3.54     | 1.86                                      | 0.00     | 3.54  | 0.00     | 1.86                              | 0.00     | 0.00      | 0.00     | Ret. Fan Heat      | 4.86    | 4.86    |  |
| Duct Heat Pkup                  | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00  | 0.00     | 0.00                              | 0.00     | -13.77    | 19.71    | Duct Heat Pkup     | 205.77  | -372.17 |  |
| Reheat at Design                |              |              |          |   |          |       |          |                                   |          |           |          | Reheat at Design   |         |         |  |
| Grand Total ==>                 | 10.02        | 0.16         | 52.51    | 100.00                                    | 100.00   | 52.51 | 100.00   | 8.51                              | 100.00   | -0.79     | 100.00   | Grand Total ==>    | 28      |         |  |

| COOLING COIL SELECTION |           |              |       | AREAS       |       |              |      | HEATING COIL SELECTION |              |         |      |
|------------------------|-----------|--------------|-------|-------------|-------|--------------|------|------------------------|--------------|---------|------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | Gross Total | Glass | Coil Airflow | Ent  | Capacity               | Coil Airflow | Ent     | Lvg  |
| kW                     | kW        | L/s          | °C    | m²          | (%)   | L/s          | °C   | kW                     | L/s          | °C      | °C   |
| Main Clg               | 52.51     | 37.40        | 36.5  | Floor       |       | 1,797.2      | 19.4 | Main Htg               | -9.4         | 1,797.2 | 24.0 |
| Aux Clg                | 0.00      | 0.00         | 0.0   | Part        |       | 0            | 0    | Aux Htg                | 0.0          | 0       | 0    |
| Opt Vent               | 0.00      | 0.0          | 0.0   | ExFlr       |       | 0            | 0    | Preheat                | -47.7        | 1,797   | -5   |
| Total                  | 52.51     |              |       | Roof        |       |              |      | Reheat                 | -12.7        | 1,797   | 17.8 |
|                        |           |              |       | Wall        |       |              |      | Humidif                | -37.9        | 1,795   | 0.5  |
|                        |           |              |       |             |       |              |      | Opt Vent               | 0.0          | 0       | 0.0  |
|                        |           |              |       |             |       |              |      | Total                  | -95.0        |         |      |



System Checksums

By GOCSA

CL0103-QUIROFANO 01 OFTALMOL

Single Zone

| COOLING COIL PEAK               |  |  |  | CLG SPACE PEAK                            |  |  |  | HEATING COIL PEAK                 |  |  |  | TEMPERATURES                   |  |  |  |
|---------------------------------|--|--|--|---|--|--|--|-----------------------------------|--|--|--|--------------------------------|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  | SADB<br>Cooling<br>Heating     |  |  |  |
|                                 |  |  |  |   |  |  |  |                                   |  |  |  | Plenum<br>22.1<br>22.2<br>21.5 |  |  |  |
|                                 |  |  |  |   |  |  |  |                                   |  |  |  | Return<br>23.0<br>21.5<br>-4.9 |  |  |  |
|                                 |  |  |  |   |  |  |  |                                   |  |  |  | Fn MtrTD<br>0.2<br>0.0<br>0.0  |  |  |  |
|                                 |  |  |  |   |  |  |  |                                   |  |  |  | Fn BldTD<br>0.4<br>0.0<br>0.0  |  |  |  |
|                                 |  |  |  |   |  |  |  |                                   |  |  |  | Fn Frict<br>1.1<br>0.0<br>0.0  |  |  |  |
| Envelope Loads                  |  |  |  |   |  |  |  | Space Peak<br>Space Sens          |  |  |  | Coil Peak<br>Tot Sens          |  |  |  |
| Skylite Solar                   |  |  |  |   |  |  |  | 0.00                              |  |  |  | 0.00                           |  |  |  |
| Skylite Cond                    |  |  |  |   |  |  |  | 0.00                              |  |  |  | 0.00                           |  |  |  |
| Roof Cond                       |  |  |  |   |  |  |  | 0.00                              |  |  |  | -0.43                          |  |  |  |
| Glass Solar                     |  |  |  |   |  |  |  | 0.00                              |  |  |  | 0.00                           |  |  |  |
| Glass Cond                      |  |  |  |   |  |  |  | 0.00                              |  |  |  | 0.00                           |  |  |  |
| Wall Cond                       |  |  |  |   |  |  |  | 0.00                              |  |  |  | 0.00                           |  |  |  |
| Partition                       |  |  |  |   |  |  |  | 0.00                              |  |  |  | 0.00                           |  |  |  |
| Exposed Floor                   |  |  |  |   |  |  |  | 0.05                              |  |  |  | -0.09                          |  |  |  |
| Infiltration                    |  |  |  |   |  |  |  | 0.00                              |  |  |  | 0.00                           |  |  |  |
| Sub Total ==>                   |  |  |  |   |  |  |  | 0.05                              |  |  |  | -0.09                          |  |  |  |
| Internal Loads                  |  |  |  |   |  |  |  |                                   |  |  |  |                                |  |  |  |
| Lights                          |  |  |  |   |  |  |  | 0.84                              |  |  |  | 0.00                           |  |  |  |
| People                          |  |  |  |   |  |  |  | 0.79                              |  |  |  | 0.00                           |  |  |  |
| Misc                            |  |  |  |   |  |  |  | 3.50                              |  |  |  | 0.00                           |  |  |  |
| Sub Total ==>                   |  |  |  |   |  |  |  | 5.13                              |  |  |  | 0.00                           |  |  |  |
| Ceiling Load                    |  |  |  |   |  |  |  | 0.01                              |  |  |  | 0                              |  |  |  |
| Ventilation Load                |  |  |  |   |  |  |  | 0.00                              |  |  |  | -20.82                         |  |  |  |
| Adj Air Trans Heat              |  |  |  |   |  |  |  | 0                                 |  |  |  | 0                              |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |   |  |  |  | 1                                 |  |  |  | 0.00                           |  |  |  |
| Ov/Undr Sizing                  |  |  |  |   |  |  |  | 0.00                              |  |  |  | 0.39                           |  |  |  |
| Exhaust Heat                    |  |  |  |   |  |  |  | -0.80                             |  |  |  | 0.00                           |  |  |  |
| Sup. Fan Heat                   |  |  |  |   |  |  |  | 1.20                              |  |  |  | 0.00                           |  |  |  |
| Ret. Fan Heat                   |  |  |  |   |  |  |  | 0.70                              |  |  |  | 0.00                           |  |  |  |
| Duct Heat Pkup                  |  |  |  |   |  |  |  | 0.00                              |  |  |  | -6.27                          |  |  |  |
| Reheat at Design                |  |  |  |   |  |  |  | 0.00                              |  |  |  | 23.03                          |  |  |  |
| Grand Total ==>                 |  |  |  |   |  |  |  | 5.18                              |  |  |  | -27.22                         |  |  |  |
|                                 |  |  |  |   |  |  |  | 24.53                             |  |  |  | 100.00                         |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | -0.13                          |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 100.00                         |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | No. People                     |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  | 0.00                              |  |  |  | 6                              |  |  |  |
|                                 |  |  |  |   |  |  |  |                                   |  |  |  |                                |  |  |  |



# System Checksums

By GOC SA

CL0104-QUIROFANO 02 OFTALMOL

## Single Zone

| COOLING COIL PEAK   |  |       |        |  |     |         |       |  |         | CLG SPACE PEAK            |  |           |          |  |        |  |         |  |         | HEATING COIL PEAK              |  |  |  |  |  |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|---|--|-------|--------|--|-----|---------|-------|--|---------|---------------------------|--|-----------|----------|--|--------|--|---------|--|---------|--------------------------------|--|--|--|--|--|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time: Outside Air: OADB/WB/HR: 36 / 22 / 11 Mo/Hr: 7 / 15 |  |       |        |  |     |         |       |  |         | Mo/Hr: Sum of OADB: Peaks |  |           |          |  |        |  |         |  |         | Mo/Hr: Heating Design OADB: -5 |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.  |  | Space | Plenum |  | Net | Percent | Space |  | Percent | Space Peak                |  | Coil Peak | Percent  |  | SADB   |  | Cooling |  | Heating |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| kW  |  | kW    | kW     |  | kW  | (%)     | kW    |  | (%)     | kW                        |  | Tot Sens  | Of Total |  | Plenum |  | 15.3    |  | 22.5    |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| kW  |  | kW    | kW     |  | kW  | (%)     | kW    |  | (%)     | kW                        |  | kW        | kW       |  | Return |  | 22.1    |  | 21.5    |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Envelope Loads  |  |       |        |  |     |         |       |  |         | Envelope Loads            |  |           |          |  |        |  |         |  |         |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Solar   |  |       |        |  |     |         |       |  |         | Skylite Solar             |  |           |          |  |        |  |         |  |         |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Cond  |  |       |        |  |     |         |       |  |         | Skylite Cond              |  |           |          |  |        |  |         |  |         |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Roof Cond   |  |       |        |  |     |         |       |  |         | Roof Cond                 |  |           |          |  |        |  |         |  |         |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Solar   |  |       |        |  |     |         |       |  |         | Glass Solar               |  |           |          |  |        |  |         |  |         |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Cond  |  |       |        |  |     |         |       |  |         | Glass Cond                |  |           |          |  |        |  |         |  |         |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Wall Cond   |  |       |        |  |     |         |       |  |         | Wall Cond                 |  |           |          |  |        |  |         |  |         |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Partition   |  |       |        |  |     |         |       |  |         | Partition                 |  |           |          |  |        |  |         |  |         |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exposed Floor   |  |       |        |  |     |         |       |  |         | Exposed Floor             |  |           |          |  |        |  |         |  |         |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Infiltration  |  |       |        |  |     |         |       |  |         | Infiltration              |  |           |          |  |        |  |         |  |         |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>   |  |       |        |  |     |         |       |  |         | Sub Total ==>             |  |           |          |  |        |  |         |  |         |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Internal Loads  |  |       |        |  |     |         |       |  |         | Internal Loads            |  |           |          |  |        |  |         |  |         | AIRFLOWS                       |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Lights  |  |       |        |  |     |         |       |  |         | Lights                    |  |           |          |  |        |  |         |  |         | Cooling                        |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| People  |  |       |        |  |     |         |       |  |         | People                    |  |           |          |  |        |  |         |  |         | 647                            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Misc  |  |       |        |  |     |         |       |  |         | Misc                      |  |           |          |  |        |  |         |  |         | 0                              |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>   |  |       |        |  |     |         |       |  |         | Sub Total ==>             |  |           |          |  |        |  |         |  |         | Heating                        |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ceiling Load  |  |       |        |  |     |         |       |  |         | Ceiling Load              |  |           |          |  |        |  |         |  |         | 647                            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ventilation Load  |  |       |        |  |     |         |       |  |         | Ventilation Load          |  |           |          |  |        |  |         |  |         | 647                            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat  |  |       |        |  |     |         |       |  |         | Adj Air Trans Heat        |  |           |          |  |        |  |         |  |         | 647                            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing  |  |       |        |  |     |         |       |  |         | Ov/Undr Sizing            |  |           |          |  |        |  |         |  |         | 647                            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing  |  |       |        |  |     |         |       |  |         | Exhaust Heat              |  |           |          |  |        |  |         |  |         | 647                            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exhaust Heat  |  |       |        |  |     |         |       |  |         | OA Preheat Diff.          |  |           |          |  |        |  |         |  |         | 647                            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat   |  |       |        |  |     |         |       |  |         | RA Preheat Diff.          |  |           |          |  |        |  |         |  |         | 647                            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat   |  |       |        |  |     |         |       |  |         | Additional Reheat         |  |           |          |  |        |  |         |  |         | 647                            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Duct Heat PkUp  |  |       |        |  |     |         |       |  |         |                           |  |           |          |  |        |  |         |  |         | 647                            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Reheat at Design  |  |       |        |  |     |         |       |  |         |                           |  |           |          |  |        |  |         |  |         | 647                            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Grand Total ==>   |  |       |        |  |     |         |       |  |         | Grand Total ==>           |  |           |          |  |        |  |         |  |         | 647                            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 5.20  |  |       |        |  |     |         |       |  |         | 4.94                      |  |           |          |  |        |  |         |  |         | -0.37                          |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.01  |  |       |        |  |     |         |       |  |         | 23.32                     |  |           |          |  |        |  |         |  |         | 100.00                         |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 23.31   |  |       |        |  |     |         |       |  |         | 23.32                     |  |           |          |  |        |  |         |  |         | 100.00                         |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.01                      |  |           |          |  |        |  |         |  |         | -26.41                         |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 100.00                         |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         | 0.00                           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00  |  |       |        |  |     |         |       |  |         | 0.00                      |  |           |          |  |        |  |         |  |         |                                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |



# System Checksums

By GOC SA

CL0105-QUIROFANO 03 OFTALMOL

## Single Zone

| COOLING COIL PEAK   |  |       |             |  |  |  |          |  |          | CLG SPACE PEAK            |          |  |            |  |                                |  |          |  |         | HEATING COIL PEAK |         |            |  |  |  |  |  |  |  | TEMPERATURES |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
|---|--|-------|-------------|--|--|--|----------|--|----------|---------------------------|----------|--|------------|--|--------------------------------|--|----------|--|---------|-------------------|---------|------------|--|--|--|--|--|--|--|--------------|--|-----------------|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|
| Peaked at Time: Outside Air:  |  |       |             |  | Mo/Hr: 7 / 15 OADB/WB/HR: 36 / 22 / 11 |  |          |  |          | Mo/Hr: Sum of OADB: Peaks |          |  |            |  | Mo/Hr: Heating Design OADB: -5 |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.  |  | Space | Plenum      |  | Net                                    |  | Percent  |  | Space    |                           | Percent  |  | Space Peak |  | Coil Peak                      |  | Percent  |  | Cooling |                   | Heating |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.  |  | kW    | Sens. + Lat |  | Total                                  |  | Of Total |  | Sensible |                           | Of Total |  | Space Sens |  | Tot Sens                       |  | Of Total |  | L/s     |                   | °C      |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
|   |  | kW    | kW          |  | kW                                     |  | (%)      |  | kW       |                           | (%)      |  | kW         |  | kW                             |  | (%)      |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Envelope Loads  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         | AIRFLOWS   |  |  |  |  |  |  |  |              |  | ENGINEERING CKS |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Skylite Solar   |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         | Vent       |  |  |  |  |  |  |  |              |  | Cooling         |  |  |  |  |  |  |  |  |  | Heating |  |  |  |  |  |  |  |  |  |
| Skylite Cond  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         | Infil      |  |  |  |  |  |  |  |              |  | 647             |  |  |  |  |  |  |  |  |  | 647     |  |  |  |  |  |  |  |  |  |
| Roof Cond   |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         | Supply     |  |  |  |  |  |  |  |              |  | 0               |  |  |  |  |  |  |  |  |  | 0       |  |  |  |  |  |  |  |  |  |
| Glass Solar   |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         | MinStop/Rh |  |  |  |  |  |  |  |              |  | 647             |  |  |  |  |  |  |  |  |  | 647     |  |  |  |  |  |  |  |  |  |
| Glass Cond  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         | Return     |  |  |  |  |  |  |  |              |  | 647             |  |  |  |  |  |  |  |  |  | 647     |  |  |  |  |  |  |  |  |  |
| Wall Cond   |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         | Exhaust    |  |  |  |  |  |  |  |              |  | 647             |  |  |  |  |  |  |  |  |  | 647     |  |  |  |  |  |  |  |  |  |
| Partition   |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         | Rm Exh     |  |  |  |  |  |  |  |              |  | 0               |  |  |  |  |  |  |  |  |  | 0       |  |  |  |  |  |  |  |  |  |
| Exposed Floor   |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         | Auxiliary  |  |  |  |  |  |  |  |              |  | 0               |  |  |  |  |  |  |  |  |  | 0       |  |  |  |  |  |  |  |  |  |
| Infiltration  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Sub Total ==>   |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Sub Total =0.10 0.12 0.22 0.94 0.19 3.85 -0.33 -0.76 2.88   |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Internal Loads  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Lights  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| People  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Misc  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Sub Total ==>   |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Sub Total =0.80 0.00 0.80 3.43 0.80 16.19 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Ceiling Load  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Ventilation Load  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Exhaust Heat  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat   |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat   |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Duct Heat PkUp  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Reheat at Design  |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Grand Total ==>   |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |
| Grand Total =5.20 0.01 23.32 100.00 4.94 100.00 -0.37 -26.41 100.00   |  |       |             |  |  |  |          |  |          |                           |          |  |            |  |                                |  |          |  |         |                   |         |            |  |  |  |  |  |  |  |              |  |                 |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |           |  |              |  |       |  |       |  | HEATING COIL SELECTION |  |              |  |      |  |      |  |      |  |
|------------------------|--|-----------|--|--------------|--|-------|--|-------|--|------------------------|--|--------------|--|------|--|------|--|------|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter |  | Leave |  | Capacity               |  | Coil Airflow |  | Ent  |  | Lvlg |  |      |  |
| kW                     |  | kW        |  | L/s          |  | °C    |  | °C    |  | kW                     |  | L/s          |  | °C   |  |      |  |      |  |
| 23.31                  |  | 16.77     |  | 646.9        |  | 36.5  |  | 13.7  |  | -6.5                   |  | 646.9        |  | 13.7 |  | 22.5 |  | 22.5 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0    |  | 0    |  | 0    |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.8                  |  | 647          |  | -5   |  | 14   |  | 14   |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -6.1                   |  | 647          |  | 13.7 |  | 22.0 |  | 22.0 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.6                  |  | 647          |  | 0.5  |  | 8.1  |  | 8.1  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -34.0                  |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 16.77                  |  | 0.00      |  | 646.9        |  | 36.5  |  | 13.7  |  | -6.5                   |  | 646.9        |  | 13.7 |  | 22.5 |  | 22.5 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0    |  | 0    |  | 0    |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.8                  |  | 647          |  | -5   |  | 14   |  | 14   |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -6.1                   |  | 647          |  | 13.7 |  | 22.0 |  | 22.0 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.6                  |  | 647          |  | 0.5  |  | 8.1  |  | 8.1  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -34.0                  |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 16.77                  |  | 0.00      |  | 646.9        |  | 36.5  |  | 13.7  |  | -6.5                   |  | 646.9        |  | 13.7 |  | 22.5 |  | 22.5 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0    |  | 0    |  | 0    |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.8                  |  | 647          |  | -5   |  | 14   |  | 14   |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -6.1                   |  | 647          |  | 13.7 |  | 22.0 |  | 22.0 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.6                  |  | 647          |  | 0.5  |  | 8.1  |  | 8.1  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -34.0                  |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 16.77                  |  | 0.00      |  | 646.9        |  | 36.5  |  | 13.7  |  | -6.5                   |  | 646.9        |  | 13.7 |  | 22.5 |  | 22.5 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0    |  | 0    |  | 0    |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.8                  |  | 647          |  | -5   |  | 14   |  | 14   |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -6.1                   |  | 647          |  | 13.7 |  | 22.0 |  | 22.0 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.6                  |  | 647          |  | 0.5  |  | 8.1  |  | 8.1  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -34.0                  |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 16.77                  |  | 0.00      |  | 646.9        |  | 36.5  |  | 13.7  |  | -6.5                   |  | 646.9        |  | 13.7 |  | 22.5 |  | 22.5 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0    |  | 0    |  | 0    |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.8                  |  | 647          |  | -5   |  | 14   |  | 14   |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -6.1                   |  | 647          |  | 13.7 |  | 22.0 |  | 22.0 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.6                  |  | 647          |  | 0.5  |  | 8.1  |  | 8.1  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -34.0                  |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 16.77                  |  | 0.00      |  | 646.9        |  | 36.5  |  | 13.7  |  | -6.5                   |  | 646.9        |  | 13.7 |  | 22.5 |  | 22.5 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0    |  | 0    |  | 0    |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.8                  |  | 647          |  | -5   |  | 14   |  | 14   |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -6.1                   |  | 647          |  | 13.7 |  | 22.0 |  | 22.0 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.6                  |  | 647          |  | 0.5  |  | 8.1  |  | 8.1  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -34.0                  |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 16.77                  |  | 0.00      |  | 646.9        |  | 36.5  |  | 13.7  |  | -6.5                   |  | 646.9        |  | 13.7 |  | 22.5 |  | 22.5 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0    |  | 0    |  | 0    |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.8                  |  | 647          |  | -5   |  | 14   |  | 14   |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -6.1                   |  | 647          |  | 13.7 |  | 22.0 |  | 22.0 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.6                  |  | 647          |  | 0.5  |  | 8.1  |  | 8.1  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -34.0                  |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 16.77                  |  | 0.00      |  | 646.9        |  | 36.5  |  | 13.7  |  | -6.5                   |  | 646.9        |  | 13.7 |  | 22.5 |  | 22.5 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0    |  | 0    |  | 0    |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.8                  |  | 647          |  | -5   |  | 14   |  | 14   |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -6.1                   |  | 647          |  | 13.7 |  | 22.0 |  | 22.0 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.6                  |  | 647          |  | 0.5  |  | 8.1  |  | 8.1  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -34.0                  |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 16.77                  |  | 0.00      |  | 646.9        |  | 36.5  |  | 13.7  |  | -6.5                   |  | 646.9        |  | 13.7 |  | 22.5 |  | 22.5 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0    |  | 0    |  | 0    |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.8                  |  | 647          |  | -5   |  | 14   |  | 14   |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -6.1                   |  | 647          |  | 13.7 |  | 22.0 |  | 22.0 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.6                  |  | 647          |  | 0.5  |  | 8.1  |  | 8.1  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -34.0                  |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
| 16.77                  |  | 0.00      |  | 646.9        |  | 36.5  |  | 13.7  |  | -6.5                   |  | 646.9        |  | 13.7 |  | 22.5 |  | 22.5 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0    |  | 0    |  | 0    |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.8                  |  | 647          |  | -5   |  | 14   |  | 14   |  |
| 23.31                  |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -6.1                   |  | 647          |  | 13.7 |  | 22.0 |  | 22.0 |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | -13.6                  |  | 647          |  | 0.5  |  | 8.1  |  | 8.1  |  |
| 0.00                   |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  | 0.0  |  | 0.0  |  |
|                        |  |           |  |              |  |       |  |       |  |                        |  |              |  |      |  |      |  |      |  |



System Checksums

By GOCSA

CL0201-ESTERILIZACION LIMPIO

Single Zone

| COOLING COIL PEAK               |             |              |       | CLG SPACE PEAK                            |       |          |                 | HEATING COIL PEAK                 |              |       |          | TEMPERATURES |         |         |  |
|---------------------------------|-------------|--------------|-------|---|-------|----------|-----------------|-----------------------------------|--------------|-------|----------|--------------|---------|---------|--|
| Peaked at Time:<br>Outside Air: |             |              |       | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |       |          |                 | Mo/Hr: Heating Design<br>OADB: -5 |              |       |          |              |         |         |  |
| Total Capacity                  | Sens Cap.   | Coil Airflow | Enter | DB/WB/HR                                  | Leave | DB/WB/HR | Enter           | Sens Cap.                         | Coil Airflow | Enter | DB/WB/HR | SADB         | Cooling | Heating |  |
| kW                              | kW          | L/s          | °C    | °C  | °C    | °C       | °C              | kW                                | L/s          | °C    | °C       | Plenum       | 24.1    | 24.1    |  |
| Sens. + Lat.                    | Sens. + Lat |              |       |   |       |          |                 | Space                             |              |       |          | Return       | 25.1    | 22.0    |  |
| kW                              | kW          |              |       |   |       |          |                 | Sens. + Lat                       |              |       |          | Ret/OA       | 36.4    | -4.8    |  |
|                                 |             |              |       |   |       |          |                 |                                   |              |       |          | Fn MtrTD     | 0.2     | 0.0     |  |
|                                 |             |              |       |   |       |          |                 |                                   |              |       |          | Fn BldTD     | 0.4     | 0.0     |  |
|                                 |             |              |       |   |       |          |                 |                                   |              |       |          | Fn Frict     | 1.1     | 0.0     |  |
| Envelope Loads                  |             |              |       | Envelope Loads                            |       |          |                 | Space Peak                        |              |       |          |              |         |         |  |
| Skylite Solar                   | 0.00        | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | Space Sens                        | 0.00         | 0.00  | 0.00     |              |         |         |  |
| Skylite Cond                    | 0.00        | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | Space Sens                        | 0.00         | 0.00  | 0.00     |              |         |         |  |
| Roof Cond                       | 0.00        | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | Space Sens                        | 0.00         | 0.00  | 0.00     |              |         |         |  |
| Glass Solar                     | 0.52        | 0.00         | 1.16  | 0.00                                      | 0.00  | 0.00     | 0.00            | Space Sens                        | 0.00         | 0.00  | 0.00     |              |         |         |  |
| Glass Cond                      | 0.04        | 0.00         | 0.04  | 0.09                                      | 0.04  | 0.04     | 0.04            | Space Sens                        | -0.15        | -0.15 | 0.25     |              |         |         |  |
| Wall Cond                       | 0.03        | 0.01         | 0.04  | 0.09                                      | 0.03  | 0.03     | 0.39            | Space Sens                        | -0.14        | -0.18 | 0.30     |              |         |         |  |
| Partition                       | 0.03        | 0.03         | 0.07  | 0.07                                      | 0.04  | 0.04     | 0.52            | Space Sens                        | -0.62        | -0.62 | 1.02     |              |         |         |  |
| Exposed Floor                   | -0.07       | 0.00         | -0.16 | -0.16                                     | -0.05 | -0.05    | -0.65           | Space Sens                        | -2.18        | -2.18 | 3.58     |              |         |         |  |
| Infiltration                    | 0.00        | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | Space Sens                        | 0.00         | 0.00  | 0.00     |              |         |         |  |
| Sub Total ==>                   | 0.55        | 0.01         | 0.56  | 1.25                                      | 0.66  | 0.66     | 8.62            | Space Sens                        | -3.09        | -3.13 | 5.14     |              |         |         |  |
| Internal Loads                  |             |              |       | Internal Loads                            |       |          |                 |                                   |              |       |          |              |         |         |  |
| Lights                          | 1.12        | 0.28         | 1.40  | 3.12                                      | 1.12  | 1.12     | 14.62           |                                   |              |       |          |              |         |         |  |
| People                          | 1.44        | 0.00         | 1.44  | 3.21                                      | 0.79  | 10.31    | 10.31           |                                   |              |       |          |              |         |         |  |
| Misc                            | 5.00        | 0.00         | 5.00  | 11.16                                     | 5.00  | 65.27    | 65.27           |                                   |              |       |          |              |         |         |  |
| Sub Total ==>                   | 7.56        | 0.28         | 7.84  | 17.50                                     | 6.91  | 90.21    | 90.21           |                                   |              |       |          |              |         |         |  |
| Ceiling Load                    |             |              |       | Ceiling Load                              |       |          |                 |                                   |              |       |          |              |         |         |  |
| Ventilation Load                | 0.04        | -0.04        | 0.00  | 0.00                                      | 0.04  | 0.52     | 0.52            |                                   |              |       |          |              |         |         |  |
| Adj Air Trans Heat              | 0           | 0.00         | 33.86 | 75.56                                     | 0.00  | 0.00     | 0.00            |                                   |              |       |          |              |         |         |  |
| Dehumid. Ov Sizing              | 0           | 0            | 0     | 0   | 0     | 0        | 0               |                                   |              |       |          |              |         |         |  |
| Ov/Undr Sizing                  | 0.05        | -1.84        | 0.05  | 0.11                                      | 0.05  | 0.65     | 0.65            |                                   |              |       |          |              |         |         |  |
| Exhaust Heat                    |             |              |       |   |       |          |                 |                                   |              |       |          |              |         |         |  |
| Sup. Fan Heat                   |             |              |       |   |       |          |                 |                                   |              |       |          |              |         |         |  |
| Ret. Fan Heat                   |             |              |       |   |       |          |                 |                                   |              |       |          |              |         |         |  |
| Duct Heat Pkup                  |             |              |       |   |       |          |                 |                                   |              |       |          |              |         |         |  |
| Reheat at Design                |             |              |       |   |       |          |                 |                                   |              |       |          |              |         |         |  |
| Grand Total ==>                 | 8.20        | 0.01         | 44.81 | 100.00                                    | 7.66  | 100.00   | Grand Total ==> |                                   |              |       |          |              |         |         |  |
| ENGINEERING CKS                 |             |              |       | ENGINEERING CKS                           |       |          |                 |                                   |              |       |          |              |         |         |  |
| % OA                            |             |              |       |   |       |          |                 |                                   |              |       |          |              |         |         |  |
| Lps/m²                          |             |              |       |   |       |          |                 |                                   |              |       |          |              |         |         |  |
| Lps/kW                          |             |              |       |   |       |          |                 |                                   |              |       |          |              |         |         |  |
| m²/kW                           |             |              |       |   |       |          |                 |                                   |              |       |          |              |         |         |  |
| W/m²                            |             |              |       |   |       |          |                 |                                   |              |       |          |              |         |         |  |
| No. People                      |             |              |       |   |       |          |                 |                                   |              |       |          |              |         |         |  |

| COOLING COIL SELECTION |           |              |       | AREAS       |       |  |  | HEATING COIL SELECTION |              |      |      |
|------------------------|-----------|--------------|-------|-------------|-------|--|--|------------------------|--------------|------|------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | Gross Total | Glass |  |  | Capacity               | Coil Airflow | Ent  | Lvg  |
| kW                     | kW        | L/s          | °C    | m²          | (%)   |  |  | kW                     | L/s          | °C   | °C   |
| Main Clg               | 44.81     | 32.29        | 36.4  | Floor       |       |  |  | Main Htg               | -9.9         | 18.5 | 24.1 |
| Aux Clg                | 0.00      | 0.00         | 0.0   | Part        |       |  |  | Aux Htg                | 0.0          | 0    | 0    |
| Opt Vent               | 0.00      | 0.00         | 0.0   | ExFlr       |       |  |  | Preheat                | -40.5        | -5   | 18   |
| Total                  | 44.81     | 0.00         | 0.0   | Roof        |       |  |  | Reheat                 | -10.4        | 18.1 | 24.0 |
|                        |           |              |       | Wall        |       |  |  | Humidif                | -28.5        | 0.5  | 7.2  |
|                        |           |              |       |             |       |  |  | Opt Vent               | 0.0          | 0.0  | 0.0  |
|                        |           |              |       |             |       |  |  | Total                  | -79.0        |      |      |



System Checksums

By GOCSA

CL0202-ESTERILIZACION SUCIO

Single Zone

| COOLING COIL PEAK               |                 |                     |          | CLG SPACE PEAK                            |       |          |                | HEATING COIL PEAK                 |                              |                    |                            |
|---------------------------------|-----------------|---------------------|----------|---|-------|----------|----------------|-----------------------------------|------------------------------|--------------------|----------------------------|
| Peaked at Time:<br>Outside Air: |                 |                     |          | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |       |          |                | Mo/Hr: Heating Design<br>OADB: -5 |                              |                    |                            |
| Total Capacity<br>kW            | Sens Cap.<br>kW | Coil Airflow<br>L/s | Enter °C | DB/WB/HR<br>°C                            | g/kg  | Leave °C | DB/WB/HR<br>°C | Sens. + Lat.<br>kW                | Plenum<br>Sens. + Lat.<br>kW | Net<br>Total<br>kW | Percent<br>Of Total<br>(%) |
| Envelope Loads                  |                 |                     |          | Mo/Hr: Sum of<br>OADB: Peaks              |       |          |                | Space Peak<br>Space Sens<br>kW    |                              |                    |                            |
| 0.00                            | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| 0.00                            | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| 0.00                            | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| 0.00                            | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| 0.00                            | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| 0.00                            | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| -0.01                           | -0.01           | -0.01               | -0.07    | -0.07                                     | 0.12  | 3.79     | -0.44          | -0.44                             | -0.44                        | 2.37               | 0.00                       |
| -0.02                           | -0.02           | -0.02               | -0.14    | -0.14                                     | -0.02 | -0.63    | -0.46          | -0.46                             | -0.46                        | 2.48               | 0.00                       |
| 0.00                            | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| -0.03                           | 0.00            | -0.03               | -0.20    | -0.20                                     | 0.10  | 3.15     | -0.90          | -0.90                             | -0.90                        | 4.86               | 0.00                       |
| Sub Total ==>                   |                 |                     |          | Grand Total ==>                           |       |          |                | Sub Total ==>                     |                              |                    |                            |
| Internal Loads                  |                 |                     |          | Internal Loads                            |       |          |                |                                   |                              |                    |                            |
| 0.48                            | 0.12            | 0.60                | 4.05     | 0.48                                      | 0.63  | 15.14    | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| 1.03                            | 0.00            | 1.03                | 6.96     | 0.57                                      | 0.00  | 17.98    | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| 2.00                            | 0.00            | 2.00                | 13.51    | 2.00                                      | 0.00  | 63.09    | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| Sub Total ==>                   |                 |                     |          | Sub Total ==>                             |       |          |                |                                   |                              |                    |                            |
| 3.51                            | 0.12            | 3.63                | 24.53    | 3.05                                      | 0.63  | 96.21    | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| Ceiling Load                    |                 |                     |          | Ceiling Load                              |       |          |                |                                   |                              |                    |                            |
| 0.02                            | -0.02           | 0.00                | 0.00     | 0.02                                      | 0.00  | 0.63     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| 0.00                            | 0.00            | 0.00                | 71.89    | 0.00                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | -13.80             | 74.47                      |
| Ventilation Load                |                 |                     |          | Ventilation Load                          |       |          |                |                                   |                              |                    |                            |
| 0                               | 0.00            | 0                   | 0        | 0   | 0     | 0        | 0              | 0                                 | 0                            | 0                  | 0                          |
| Adj Air Trans Heat              |                 |                     |          | Adj Air Trans Heat                        |       |          |                |                                   |                              |                    |                            |
| 0.00                            | 0.00            | 0.00                | 0        | 0.00                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| Dehumid. Ov Sizing              |                 |                     |          | Ov/Undr Sizing                            |       |          |                |                                   |                              |                    |                            |
| 0.00                            | -0.56           | 0.00                | 0.00     | 0.00                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| Exhaust Heat                    |                 |                     |          | Exhaust Heat                              |       |          |                |                                   |                              |                    |                            |
| 0.66                            | 0.66            | 0.66                | -3.78    | -0.56                                     | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| Sup. Fan Heat                   | 0.46            | 0.46                | 4.46     | 0.66                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| Ret. Fan Heat                   | 0.00            | 0.00                | 3.11     | 0.46                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| Duct Heat Pkup                  | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| Reheat at Design                | 0.00            | 0.00                | 0.00     | 0.00                                      | 0.00  | 0.00     | 0.00           | 0.00                              | 0.00                         | 0.00               | 0.00                       |
| Sub Total ==>                   |                 |                     |          | Sub Total ==>                             |       |          |                |                                   |                              |                    |                            |
| 3.50                            | 0.00            | 14.80               | 100.00   | 3.17                                      | 0.63  | 100.00   | -0.90          | -0.90                             | -0.90                        | -18.53             | 100.00                     |
| Grand Total ==>                 |                 |                     |          | Grand Total ==>                           |       |          |                |                                   |                              |                    |                            |
| 3.50                            | 0.00            | 14.80               | 100.00   | 3.17                                      | 0.63  | 100.00   | -0.90          | -0.90                             | -0.90                        | -18.53             | 100.00                     |

TEMPERATURES

|          |         |      |         |      |
|----------|---------|------|---------|------|
| SADB     | Cooling | 17.8 | Heating | 24.6 |
| Plenum   |         | 24.2 |         | 22.0 |
| Return   |         | 25.1 |         | 22.0 |
| Ret/OA   |         | 36.5 |         | -4.9 |
| Fn MtrTD |         | 0.1  |         | 0.0  |
| Fn BldTD |         | 0.3  |         | 0.0  |
| Fn Frict |         | 0.9  |         | 0.0  |

AIRFLOWS

|            |         |     |         |     |
|------------|---------|-----|---------|-----|
| Vent       | Cooling | 448 | Heating | 448 |
| Infil      |         | 0   |         | 0   |
| Supply     |         | 448 |         | 448 |
| MinStop/Rh |         | 448 |         | 448 |
| Return     |         | 448 |         | 448 |
| Exhaust    |         | 448 |         | 448 |
| Rm Exh     |         | 0   |         | 0   |
| Auxiliary  |         | 0   |         | 0   |

ENGINEERING CKS

|            |         |        |         |         |
|------------|---------|--------|---------|---------|
| % OA       | Cooling | 100.0  | Heating | 100.0   |
| Lps/m²     |         | 6.94   |         | 6.94    |
| Lps/kW     |         | 30.28  |         |         |
| m²/kW      |         | 4.36   |         |         |
| W/m²       |         | 228.99 |         | -356.05 |
| No. People |         | 7      |         |         |

COOLING COIL SELECTION

| Total Capacity<br>kW | Sens Cap.<br>kW | Coil Airflow<br>L/s | Enter °C | DB/WB/HR<br>°C | g/kg | Leave °C | DB/WB/HR<br>°C | g/kg |
|----------------------|-----------------|---------------------|----------|----------------|------|----------|----------------|------|
| 14.80                | 10.11           | 448.3               | 36.5     | 21.6           | 11.5 | 16.5     | 12.2           | 7.9  |
| 0.00                 | 0.00            | 0.0                 | 0.0      | 0.0            | 0.0  | 0.0      | 0.0            | 0.0  |
| 0.00                 | 0.00            | 0.0                 | 0.0      | 0.0            | 0.0  | 0.0      | 0.0            | 0.0  |
| Total                |                 |                     |          |                |      |          |                |      |
| 14.80                |                 |                     |          |                |      |          |                |      |

AREAS

| Gross Total | Glass<br>m² | (%) |
|-------------|-------------|-----|
| Floor       | 65          |     |
| Part        | 200         |     |
| ExFlr       | 24          |     |
| Roof        | 0           | 0   |
| Wall        | 0           | 0   |

HEATING COIL SELECTION

| Capacity<br>kW | Coil Airflow<br>L/s | Ent °C | Lvg °C |
|----------------|---------------------|--------|--------|
| Main Htg       | -3.7                | 448.3  | 17.3   |
| Aux Htg        | 0.0                 | 0      | 0      |
| Preheat        | -11.0               | 448    | -5     |
| Reheat         | -3.8                | 448    | 16.5   |
| Humidif        | -8.3                | 448    | 0.5    |
| Opt Vent       | 0.0                 | 0      | 0.0    |
| Total          |                     |        |        |
| -23.0          |                     |        |        |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 System Checksums Report 14/06/2020 de 37



System Checksums

By GOCSA

CL0204-HALL

Single Zone

| COOLING COIL PEAK               |              |              |          | CLG SPACE PEAK                            |          |          |          | HEATING COIL PEAK                 |          |           |          | TEMPERATURES |               |         |         |
|---------------------------------|--------------|--------------|----------|---|----------|----------|----------|-----------------------------------|----------|-----------|----------|--------------|---------------|---------|---------|
| Peaked at Time:<br>Outside Air: |              |              |          | Mo/Hr: 7 / 16<br>OADB/WB/HR: 36 / 21 / 11 |          |          |          | Mo/Hr: Heating Design<br>OADB: -5 |          |           |          |              |               |         |         |
| Total Capacity                  | Sens Cap.    | Coil Airflow | Enter    | DB/WB/HR                                  | g/kg     | °C       | DB/WB/HR | g/kg                              | °C       | Leave     | DB/WB/HR | g/kg         | SADB          | Cooling | Heating |
| kW                              | kW           | L/s          | °C       | °C  | g/kg     | °C       | °C       | g/kg                              | °C       | °C        | °C       | °C           | Plenum        | 24.3    | 24.0    |
| Sens. + Lat.                    | Sens. + Lat. |              |          |   |          |          |          |                                   |          |           |          |              | Return        | 25.2    | 21.8    |
| kW                              | kW           |              |          |   |          |          |          |                                   |          |           |          |              | Ret/OA        | 30.6    | 8.5     |
| Space                           | Plenum       | Net          | Percent  | Space                                     | Percent  | Space    | Percent  | Space                             | Percent  | Coil Peak | Percent  | Space        | Fn MtrTD      | 0.1     | 0.0     |
| Sens. + Lat.                    | Sens. + Lat. | Total        | Of Total | Sensible                                  | Of Total | Sensible | Of Total | Sensible                          | Of Total | Tot Sens  | Of Total | Space Sens   | Fn BldTD      | 0.3     | 0.0     |
| kW                              | kW           | kW           | (%)      | kW  | (%)      | kW       | (%)      | kW                                | (%)      | kW        | (%)      | kW           | Fn Frict      | 0.9     | 0.0     |
| Envelope Loads                  |              |              |          |   |          |          |          |                                   |          |           |          |              |               |         |         |
| Skylite Solar                   | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Skylite Solar | 0.00    | 0.00    |
| Skylite Cond                    | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Skylite Cond  | 0.00    | 0.00    |
| Roof Cond                       | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Roof Cond     | 0.00    | 0.00    |
| Glass Solar                     | 5.17         | 5.17         | 12.75    | 10.14                                     | 51.66    | 10.14    | 51.66    | 10.14                             | 51.66    | -1.85     | -1.85    | 0.00         | Glass Solar   | 0.00    | 0.00    |
| Glass Cond                      | 0.58         | 0.58         | 1.43     | 0.27                                      | 1.38     | 0.27     | 1.38     | 0.27                              | 1.38     | -1.85     | -1.85    | 0.00         | Glass Cond    | 0.00    | 0.00    |
| Wall Cond                       | 0.32         | 0.39         | 0.96     | 0.08                                      | 0.41     | 0.08     | 0.41     | 0.08                              | 0.41     | -1.89     | -2.34    | 7.47         | Wall Cond     | 0.00    | 0.00    |
| Partition                       | 0.01         | 0.01         | 0.02     | 0.04                                      | 0.20     | 0.04     | 0.20     | 0.04                              | 0.20     | -0.15     | -0.15    | 0.48         | Partition     | 0.00    | 0.00    |
| Exposed Floor                   | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Exposed Floor | 0.00    | 0.00    |
| Infiltration                    | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Infiltration  | 0.00    | 0.00    |
| Sub Total ==>                   | 6.08         | 6.15         | 15.17    | 10.53                                     | 53.64    | 10.53    | 53.64    | 10.53                             | 53.64    | -3.89     | -4.34    | 13.85        | Sub Total ==> | 1.766   | 1.766   |
| Internal Loads                  |              |              |          |   |          |          |          |                                   |          |           |          |              |               |         |         |
| Lights                          | 2.94         | 3.67         | 9.05     | 2.94                                      | 14.98    | 2.94     | 14.98    | 2.94                              | 14.98    | 0.00      | 0.00     | 0.00         | MinStop/Rh    | 0       | 0       |
| People                          | 8.82         | 8.82         | 21.75    | 5.29                                      | 26.95    | 5.29     | 26.95    | 5.29                              | 26.95    | 0.00      | 0.00     | 0.00         | Return        | 1.766   | 1.766   |
| Misc                            | 0.70         | 0.70         | 1.73     | 0.70                                      | 3.57     | 0.70     | 3.57     | 0.70                              | 3.57     | 0.00      | 0.00     | 0.00         | Exhaust       | 882     | 882     |
| Sub Total ==>                   | 12.46        | 13.19        | 32.53    | 8.93                                      | 45.49    | 8.93     | 45.49    | 8.93                              | 45.49    | 0.00      | 0.00     | 0.00         | Rm Exh        | 0       | 0       |
| Engineering CKS                 |              |              |          |   |          |          |          |                                   |          |           |          |              |               |         |         |
| Ceiling Load                    | 0.18         | 0.00         | 0.00     | 0.17                                      | 0.87     | 0.17     | 0.87     | 0.17                              | 0.87     | -0.10     | 0        | 0.00         | Auxiliary     | 0       | 0       |
| Ventilation Load                | 0.00         | 17.99        | 44.36    | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | -27.17   | 86.69        | Supply        | 1.766   | 1.766   |
| Adj Air Trans Heat              | 0            | 0            | 0        | 0   | 0        | 0        | 0        | 0                                 | 0        | 0         | 0        | 0            | MinStop/Rh    | 0       | 0       |
| Dehumid. Ov Sizing              | 0.00         | 0            | 0        | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Return        | 1.766   | 1.766   |
| Ov/Undr Sizing                  | -1.22        | -1.22        | -3.01    | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Exhaust       | 882     | 882     |
| Exhaust Heat                    | 2.61         | 2.61         | 6.44     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Rm Exh        | 0       | 0       |
| Sup. Fan Heat                   | 1.83         | 1.83         | 4.51     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Auxiliary     | 0       | 0       |
| Ret. Fan Heat                   | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Supply        | 1.766   | 1.766   |
| Duct Heat Pkup                  | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | MinStop/Rh    | 0       | 0       |
| Reheat at Design                | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Return        | 1.766   | 1.766   |
| Grand Total ==>                 | 18.72        | 40.55        | 100.00   | 19.63                                     | 100.00   | 19.63    | 100.00   | 19.63                             | 100.00   | -3.99     | -31.34   | 100.00       | Exhaust       | 882     | 882     |
| Engineering CKS                 |              |              |          |   |          |          |          |                                   |          |           |          |              |               |         |         |
| Ceiling Load                    | 0.18         | 0.00         | 0.00     | 0.17                                      | 0.87     | 0.17     | 0.87     | 0.17                              | 0.87     | -0.10     | 0        | 0.00         | Auxiliary     | 0       | 0       |
| Ventilation Load                | 0.00         | 17.99        | 44.36    | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | -27.17   | 86.69        | Supply        | 1.766   | 1.766   |
| Adj Air Trans Heat              | 0            | 0            | 0        | 0   | 0        | 0        | 0        | 0                                 | 0        | 0         | 0        | 0            | MinStop/Rh    | 0       | 0       |
| Dehumid. Ov Sizing              | 0.00         | 0            | 0        | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Return        | 1.766   | 1.766   |
| Ov/Undr Sizing                  | -1.22        | -1.22        | -3.01    | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Exhaust       | 882     | 882     |
| Exhaust Heat                    | 2.61         | 2.61         | 6.44     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Rm Exh        | 0       | 0       |
| Sup. Fan Heat                   | 1.83         | 1.83         | 4.51     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Auxiliary     | 0       | 0       |
| Ret. Fan Heat                   | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Supply        | 1.766   | 1.766   |
| Duct Heat Pkup                  | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | MinStop/Rh    | 0       | 0       |
| Reheat at Design                | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00     | 0.00                              | 0.00     | 0.00      | 0.00     | 0.00         | Return        | 1.766   | 1.766   |
| Grand Total ==>                 | 18.72        | 40.55        | 100.00   | 19.63                                     | 100.00   | 19.63    | 100.00   | 19.63                             | 100.00   | -3.99     | -31.34   | 100.00       | Exhaust       | 882     | 882     |

| COOLING COIL SELECTION |           |              |       | AREAS       |       |       |          | HEATING COIL SELECTION |              |     |      |
|------------------------|-----------|--------------|-------|-------------|-------|-------|----------|------------------------|--------------|-----|------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | Gross Total | Glass | Leave | DB/WB/HR | Capacity               | Coil Airflow | Ent | Lvg  |
| kW                     | kW        | L/s          | °C    | m²          | (%)   | °C    | g/kg     | kW                     | L/s          | °C  | °C   |
| Main Clg               | 40.53     | 31.57        | 30.8  | 334         | Floor | 13.0  | 12.2     | -31.3                  | 1,766.0      | 8.5 | 24.0 |
| Aux Clg                | 0.00      | 0.00         | 0.0   | 16          | Part  | 0.0   | 0.0      | 0.0                    | 0            | 0   | 0    |
| Opt Vent               | 0.00      | 0.00         | 0.0   | 0           | ExFlr | 0.0   | 0.0      | -9.2                   | 1,766        | 8   | 13   |
| Total                  | 40.53     | 0.00         | 0.0   | 240         | Roof  | 0     | 0        | 0.0                    | 0            | 0.0 | 0.0  |
|                        |           |              |       | 45          | Wall  | 19    |          | 0.0                    | 0            | 0.0 | 0.0  |
|                        |           |              |       |             |       |       |          | -31.3                  |              |     |      |



# System Checksums

By GOC SA

CL0206-CAMAS HdD

## Single Zone

| COOLING COIL PEAK               |  |       |  |        |   |     |  |         |  | CLG SPACE PEAK               |  |         |  |            |                                   |           |  |         |  | HEATING COIL PEAK |  |         |  |         |         |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|-------|--|--------|---|-----|--|---------|--|------------------------------|--|---------|--|------------|-----------------------------------|-----------|--|---------|--|-------------------|--|---------|--|---------|---------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |       |  |        | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |     |  |         |  | Mo/Hr: Sum of<br>OADB: Peaks |  |         |  |            | Mo/Hr: Heating Design<br>OADB: -5 |           |  |         |  | Cooling           |  |         |  |         | Heating |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.                    |  | Space |  | Plenum |   | Net |  | Percent |  | Space                        |  | Percent |  | Space Peak |                                   | Coil Peak |  | Percent |  | SADB              |  | Cooling |  | Heating |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| kW                              |  | kW    |  | kW     |   | kW  |  | %       |  | kW                           |  | %       |  | kW         |                                   | kW        |  | %       |  | Plenum            |  | 15.0    |  | 24.1    |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| kW                              |  | kW    |  | kW     |   | kW  |  | %       |  | kW                           |  | %       |  | kW         |                                   | kW        |  | %       |  | Return            |  | 25.2    |  | 21.8    |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| kW                              |  | kW    |  | kW     |   | kW  |  | %       |  | kW                           |  | %       |  | kW         |                                   | kW        |  | %       |  | Ret/OA            |  | 36.5    |  | -4.9    |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| kW                              |  | kW    |  | kW     |   | kW  |  | %       |  | kW                           |  | %       |  | kW         |                                   | kW        |  | %       |  | Fn Mtr/OA         |  | 0.1     |  | 0.0     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| kW                              |  | kW    |  | kW     |   | kW  |  | %       |  | kW                           |  | %       |  | kW         |                                   | kW        |  | %       |  | Fn BldTD          |  | 0.3     |  | 0.0     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| kW                              |  | kW    |  | kW     |   | kW  |  | %       |  | kW                           |  | %       |  | kW         |                                   | kW        |  | %       |  | Fn Frict          |  | 0.9     |  | 0.0     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Envelope Loads                  |  |       |  |        |   |     |  |         |  | Envelope Loads               |  |         |  |            |                                   |           |  |         |  | AIRFLOWS          |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Solar                   |  |       |  |        |   |     |  |         |  | Skylite Solar                |  |         |  |            |                                   |           |  |         |  | Vent              |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Cond                    |  |       |  |        |   |     |  |         |  | Skylite Cond                 |  |         |  |            |                                   |           |  |         |  | Infil             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Roof Cond                       |  |       |  |        |   |     |  |         |  | Roof Cond                    |  |         |  |            |                                   |           |  |         |  | Supply            |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Solar                     |  |       |  |        |   |     |  |         |  | Glass Solar                  |  |         |  |            |                                   |           |  |         |  | MinStop/Rh        |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Cond                      |  |       |  |        |   |     |  |         |  | Glass Cond                   |  |         |  |            |                                   |           |  |         |  | Return            |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Wall Cond                       |  |       |  |        |   |     |  |         |  | Wall Cond                    |  |         |  |            |                                   |           |  |         |  | Exhaust           |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Partition                       |  |       |  |        |   |     |  |         |  | Partition                    |  |         |  |            |                                   |           |  |         |  | Rm Exh            |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exposed Floor                   |  |       |  |        |   |     |  |         |  | Exposed Floor                |  |         |  |            |                                   |           |  |         |  | Auxiliary         |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Infiltration                    |  |       |  |        |   |     |  |         |  | Infiltration                 |  |         |  |            |                                   |           |  |         |  | Cooling           |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  |       |  |        |   |     |  |         |  | Sub Total ==>                |  |         |  |            |                                   |           |  |         |  | Heating           |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 4.30                            |  |       |  |        |   |     |  |         |  | 6.37                         |  |         |  |            |                                   |           |  |         |  | 0                 |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 4.35                            |  |       |  |        |   |     |  |         |  | 44.24                        |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 0                 |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.05                            |  |       |  |        |   |     |  |         |  | 9.16                         |  |         |  |            |                                   |           |  |         |  | 1,395             |  |         |  |         |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |







System Checksums

By GOCSA

CL0208-SILLONES OESTE HdD

Single Zone

| COOLING COIL PEAK               |  |  |  |  |   |  |  |  |  | CLG SPACE PEAK               |  |  |  |  | HEATING COIL PEAK                 |  |  |  |  | TEMPERATURES               |  |  |  |  |
|---------------------------------|--|--|--|--|---|--|--|--|--|------------------------------|--|--|--|--|-----------------------------------|--|--|--|--|----------------------------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |  |  |  |  | Mo/Hr: Sum of<br>OADB: Peaks |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  |                            |  |  |  |  |
| Sens. + Lat.<br>kW              |  |  |  |  | Space<br>kW                               |  |  |  |  | Plenum<br>Sens. + Lat.<br>kW |  |  |  |  | Net<br>Total<br>kW                |  |  |  |  | Percent<br>Of Total<br>(%) |  |  |  |  |
| Envelope Loads                  |  |  |  |  | Envelope Loads                            |  |  |  |  | Envelope Loads               |  |  |  |  | Envelope Loads                    |  |  |  |  | Envelope Loads             |  |  |  |  |
| Skyllite Solar                  |  |  |  |  | Skyllite Solar                            |  |  |  |  | Skyllite Solar               |  |  |  |  | Skyllite Solar                    |  |  |  |  | Skyllite Solar             |  |  |  |  |
| Skyllite Cond                   |  |  |  |  | Skyllite Cond                             |  |  |  |  | Skyllite Cond                |  |  |  |  | Skyllite Cond                     |  |  |  |  | Skyllite Cond              |  |  |  |  |
| Roof Cond                       |  |  |  |  | Roof Cond                                 |  |  |  |  | Roof Cond                    |  |  |  |  | Roof Cond                         |  |  |  |  | Roof Cond                  |  |  |  |  |
| Glass Solar                     |  |  |  |  | Glass Solar                               |  |  |  |  | Glass Solar                  |  |  |  |  | Glass Solar                       |  |  |  |  | Glass Solar                |  |  |  |  |
| Glass Cond                      |  |  |  |  | Glass Cond                                |  |  |  |  | Glass Cond                   |  |  |  |  | Glass Cond                        |  |  |  |  | Glass Cond                 |  |  |  |  |
| Wall Cond                       |  |  |  |  | Wall Cond                                 |  |  |  |  | Wall Cond                    |  |  |  |  | Wall Cond                         |  |  |  |  | Wall Cond                  |  |  |  |  |
| Partition                       |  |  |  |  | Partition                                 |  |  |  |  | Partition                    |  |  |  |  | Partition                         |  |  |  |  | Partition                  |  |  |  |  |
| Exposed Floor                   |  |  |  |  | Exposed Floor                             |  |  |  |  | Exposed Floor                |  |  |  |  | Exposed Floor                     |  |  |  |  | Exposed Floor              |  |  |  |  |
| Infiltration                    |  |  |  |  | Infiltration                              |  |  |  |  | Infiltration                 |  |  |  |  | Infiltration                      |  |  |  |  | Infiltration               |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | Sub Total ==>                             |  |  |  |  | Sub Total ==>                |  |  |  |  | Sub Total ==>                     |  |  |  |  | Sub Total ==>              |  |  |  |  |
| Internal Loads                  |  |  |  |  | Internal Loads                            |  |  |  |  | Internal Loads               |  |  |  |  | Internal Loads                    |  |  |  |  | Internal Loads             |  |  |  |  |
| Lights                          |  |  |  |  | Lights                                    |  |  |  |  | Lights                       |  |  |  |  | Lights                            |  |  |  |  | Lights                     |  |  |  |  |
| People                          |  |  |  |  | People                                    |  |  |  |  | People                       |  |  |  |  | People                            |  |  |  |  | People                     |  |  |  |  |
| Misc                            |  |  |  |  | Misc                                      |  |  |  |  | Misc                         |  |  |  |  | Misc                              |  |  |  |  | Misc                       |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | Sub Total ==>                             |  |  |  |  | Sub Total ==>                |  |  |  |  | Sub Total ==>                     |  |  |  |  | Sub Total ==>              |  |  |  |  |
| Ceiling Load                    |  |  |  |  | Ceiling Load                              |  |  |  |  | Ceiling Load                 |  |  |  |  | Ceiling Load                      |  |  |  |  | Ceiling Load               |  |  |  |  |
| Ventilation Load                |  |  |  |  | Ventilation Load                          |  |  |  |  | Ventilation Load             |  |  |  |  | Ventilation Load                  |  |  |  |  | Ventilation Load           |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | Adj Air Trans Heat                        |  |  |  |  | Adj Air Trans Heat           |  |  |  |  | Adj Air Trans Heat                |  |  |  |  | Adj Air Trans Heat         |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | Dehumid. Ov Sizing                        |  |  |  |  | Dehumid. Ov Sizing           |  |  |  |  | Dehumid. Ov Sizing                |  |  |  |  | Dehumid. Ov Sizing         |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | Ov/Undr Sizing                            |  |  |  |  | Ov/Undr Sizing               |  |  |  |  | Ov/Undr Sizing                    |  |  |  |  | Ov/Undr Sizing             |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | Exhaust Heat                              |  |  |  |  | Exhaust Heat                 |  |  |  |  | Exhaust Heat                      |  |  |  |  | Exhaust Heat               |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | Sup. Fan Heat                             |  |  |  |  | Sup. Fan Heat                |  |  |  |  | Sup. Fan Heat                     |  |  |  |  | Sup. Fan Heat              |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | Ret. Fan Heat                             |  |  |  |  | Ret. Fan Heat                |  |  |  |  | Ret. Fan Heat                     |  |  |  |  | Ret. Fan Heat              |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  | Duct Heat Pkup                            |  |  |  |  | Duct Heat Pkup               |  |  |  |  | Duct Heat Pkup                    |  |  |  |  | Duct Heat Pkup             |  |  |  |  |
| Reheat at Design                |  |  |  |  | Reheat at Design                          |  |  |  |  | Reheat at Design             |  |  |  |  | Reheat at Design                  |  |  |  |  | Reheat at Design           |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | Grand Total ==>                           |  |  |  |  | Grand Total ==>              |  |  |  |  | Grand Total ==>                   |  |  |  |  | Grand Total ==>            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |
|                                 |  |  |  |  |   |  |  |  |  |                              |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |



# System Checksums

By GOC SA

**CL0210-QUIROFANO**

## Single Zone

| COOLING COIL PEAK                     |  |           |  | CLG SPACE PEAK |  |                |  | HEATING COIL PEAK     |  |             |  | TEMPERATURES |  |         |  |
|---------------------------------------|--|-----------|--|----------------|--|----------------|--|-----------------------|--|-------------|--|--------------|--|---------|--|
| Peaked at Time: Mo/Hr: 7 / 15         |  |           |  | Mo/Hr: Sum of  |  |                |  | Mo/Hr: Heating Design |  |             |  |              |  |         |  |
| Outside Air: OADB/WB/HR: 36 / 22 / 11 |  |           |  | OADB: Peaks    |  |                |  | OADB: -5              |  |             |  |              |  |         |  |
| Sens. + Lat.                          |  | Plenum    |  | Net            |  | Percent        |  | Space                 |  | Space Peak  |  | Coil Peak    |  | Cooling |  |
| kW                                    |  | kW        |  | kW             |  | Of Total       |  | Sensible              |  | Space Sens  |  | Tot Sens     |  | L/s     |  |
|                                       |  |           |  |                |  | %              |  |                       |  |             |  |              |  |         |  |
| Envelope Loads                        |  |           |  |                |  |                |  |                       |  |             |  |              |  |         |  |
| Skylite Solar                         |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.00        |  | 0.00         |  | 15.0    |  |
| Skylite Cond                          |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.00        |  | 0.00         |  | 22.5    |  |
| Roof Cond                             |  | 0.00      |  | 0.26           |  | 1.16           |  | 0.00                  |  | 0.00        |  | -0.48        |  | 21.4    |  |
| Glass Solar                           |  | 0.52      |  | 0.00           |  | 2.32           |  | 0.60                  |  | 10.68       |  | 0.00         |  | 23.2    |  |
| Glass Cond                            |  | 0.00      |  | 0.06           |  | 0.27           |  | 0.05                  |  | 0.89        |  | -0.15        |  | 36.5    |  |
| Wall Cond                             |  | 0.06      |  | 0.01           |  | 0.31           |  | 0.06                  |  | 1.07        |  | -0.28        |  | -4.9    |  |
| Partition                             |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.00        |  | 0.00         |  | 0.2     |  |
| Exposed Floor                         |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.00        |  | 0.00         |  | 0.4     |  |
| Infiltration                          |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.00        |  | 0.00         |  | 0.0     |  |
| Sub Total ==>                         |  | 0.64      |  | 0.91           |  | 4.07           |  | 0.71                  |  | 12.63       |  | -0.91        |  | 1.1     |  |
| Internal Loads                        |  |           |  |                |  |                |  |                       |  |             |  |              |  |         |  |
| Lights                                |  | 0.94      |  | 0.94           |  | 4.20           |  | 0.94                  |  | 16.73       |  | 0.00         |  | 700     |  |
| People                                |  | 0.79      |  | 0.79           |  | 3.53           |  | 0.44                  |  | 7.83        |  | 0.00         |  | 700     |  |
| Misc                                  |  | 3.50      |  | 3.50           |  | 15.64          |  | 3.50                  |  | 62.28       |  | 0.00         |  | 700     |  |
| Sub Total ==>                         |  | 5.23      |  | 5.23           |  | 23.37          |  | 4.88                  |  | 86.83       |  | 0.00         |  | 700     |  |
| Ceiling Load                          |  |           |  |                |  |                |  |                       |  |             |  |              |  |         |  |
| Ventilation Load                      |  | 0.03      |  | -0.03          |  | 0.00           |  | 0.03                  |  | -0.05       |  | 0            |  | 0       |  |
| Adj Air Trans Heat                    |  | 0         |  | 0              |  | 0              |  | 0                     |  | 0           |  | -21.56       |  | 74.76   |  |
| Dehumid. Ov Sizing                    |  | 0.00      |  | 0              |  | 0              |  | 0                     |  | 0.00        |  | 0.00         |  | 100.0   |  |
| Ov/Undr Sizing                        |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.00        |  | 0.48         |  | 14.95   |  |
| Exhaust Heat                          |  | -0.97     |  | -0.97          |  | -4.33          |  | 0.00                  |  | 0.00        |  | 0.00         |  | 31.28   |  |
| Sup. Fan Heat                         |  | 0.72      |  | 1.24           |  | 5.54           |  | 0.00                  |  | 0.00        |  | 0.00         |  | 2.09    |  |
| Ret. Fan Heat                         |  | 0.00      |  | 0.72           |  | 3.22           |  | 0.00                  |  | -6.85       |  | 0.00         |  | 477.79  |  |
| Duct Heat PkUp                        |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.00        |  | 0.00         |  | -784.79 |  |
| Reheat at Design                      |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.00        |  | 0.00         |  | 6       |  |
| Grand Total ==>                       |  | 5.90      |  | -0.01          |  | 22.38          |  | 5.62                  |  | -0.43       |  | -28.84       |  | 100.00  |  |
| ENGINEERING CKS                       |  |           |  |                |  |                |  |                       |  |             |  |              |  |         |  |
| % OA                                  |  | 100.0     |  | 100.0          |  | 100.0          |  | 100.0                 |  | 100.0       |  | 100.0        |  | 100.0   |  |
| Lps/m²                                |  | 14.95     |  | 14.95          |  | 14.95          |  | 14.95                 |  | 14.95       |  | 14.95        |  | 14.95   |  |
| Lps/kW                                |  | 31.28     |  | 31.28          |  | 31.28          |  | 31.28                 |  | 31.28       |  | 31.28        |  | 31.28   |  |
| m²/kW                                 |  | 2.09      |  | 2.09           |  | 2.09           |  | 2.09                  |  | 2.09        |  | 2.09         |  | 2.09    |  |
| W/m²                                  |  | 477.79    |  | 477.79         |  | 477.79         |  | 477.79                |  | 477.79      |  | 477.79       |  | 477.79  |  |
| No. People                            |  | 6         |  | 6              |  | 6              |  | 6                     |  | 6           |  | 6            |  | 6       |  |
| HEATING COIL SELECTION                |  |           |  |                |  |                |  |                       |  |             |  |              |  |         |  |
| Total Capacity                        |  | Sens Cap. |  | Coil Airflow   |  | Enter DB/WB/HR |  | Leave DB/WB/HR        |  | Gross Total |  | Glass        |  | Lvg     |  |
| kW                                    |  | kW        |  | L/s            |  | °C             |  | °C                    |  | kW          |  | m²           |  | °C      |  |
| 22.38                                 |  | 18.39     |  | 700.1          |  | 36.5           |  | 13.5                  |  | 47          |  | 0            |  | 13.5    |  |
| 0.00                                  |  | 0.00      |  | 0.0            |  | 0.0            |  | 0.0                   |  | 61          |  | 0            |  | 0       |  |
| 0.00                                  |  | 0.00      |  | 0.0            |  | 0.0            |  | 0.0                   |  | 0           |  | 0            |  | 0       |  |
| 22.38                                 |  | 0.00      |  | 0.0            |  | 0.0            |  | 0.0                   |  | 27          |  | 4            |  | 13      |  |
| Main Ctg                              |  | Aux Ctg   |  | Opt Vent       |  | Total          |  | Main Htg              |  | Capacity    |  | Coil Airflow |  | Ent     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | -7.3        |  | 700.1        |  | 22.5    |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0       |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | -14.7       |  | 700          |  | -5      |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | -6.9        |  | 700          |  | 22.0    |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | -14.8       |  | 700          |  | 8.1     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | -36.8       |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  | 0.0     |  |
| 0.00                                  |  | 0.00      |  | 0.00           |  | 0.00           |  | 0.00                  |  | 0.0         |  | 0            |  |         |  |



System Checksums

By GOCSA

CL0211-QUIROFANO

Single Zone

| COOLING COIL PEAK               |              |              |          | CLG SPACE PEAK                            |          |          |              | HEATING COIL PEAK                 |           |          |           | TEMPERATURES |         |         |  |
|---------------------------------|--------------|--------------|----------|---|----------|----------|--------------|-----------------------------------|-----------|----------|-----------|--------------|---------|---------|--|
| Peaked at Time:<br>Outside Air: |              |              |          | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |          |          |              | Mo/Hr: Heating Design<br>OADB: -5 |           |          |           |              |         |         |  |
| Total Capacity                  | Sens Cap.    | Coil Airflow | Enter    | DB/WB/HR                                  | Leave    | DB/WB/HR | Coil Airflow | Enter                             | DB/WB/HR  | Leave    | DB/WB/HR  | SADB         | Cooling | Heating |  |
| kW                              | kW           | L/s          | °C       | °C  | °C       | °C       | L/s          | °C                                | °C        | °C       | °C        | Plenum       | 22.3    | 21.4    |  |
| Sens. + Lat.                    | Sens. + Lat. |              |          |   |          |          |              |                                   |           |          |           | Return       | 23.2    | 21.4    |  |
| kW                              | kW           |              |          |   |          |          |              |                                   |           |          |           | Ret/OA       | 36.5    | -4.9    |  |
| Space                           | Plenum       | Net          | Percent  | Space                                     | Percent  | Space    | Percent      | Space Peak                        | Coil Peak | Percent  | Coil Peak | Fn MtrTD     | 0.2     | 0.0     |  |
| Sens. + Lat.                    | Sens. + Lat. | Total        | Of Total | Sensible                                  | Of Total | Sensible | Of Total     | Space Sens                        | Tot Sens  | Of Total | Tot Sens  | Fn BldTD     | 0.4     | 0.0     |  |
| kW                              | kW           | kW           | (%)      | kW  | (%)      | kW       | (%)          | kW                                | kW        | (%)      | kW        | Fn Frict     | 1.1     | 0.0     |  |
| Envelope Loads                  |              |              |          |   |          |          |              |                                   |           |          |           |              |         |         |  |
| Skyllite Solar                  | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00         | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| Skyllite Cond                   | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00         | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| Roof Cond                       | 0.00         | 0.26         | 1.16     | 0.00                                      | 0.00     | 0.00     | 0.00         | 0.00                              | -0.48     | 1.67     | -0.48     |              |         |         |  |
| Glass Solar                     | 0.52         | 0.00         | 2.33     | 0.60                                      | 10.71    | 0.60     | 10.71        | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| Glass Cond                      | 0.06         | 0.00         | 0.27     | 0.05                                      | 0.89     | 0.05     | 0.89         | -0.15                             | -0.15     | 0.52     | -0.15     |              |         |         |  |
| Wall Cond                       | 0.04         | 0.01         | 0.22     | 0.04                                      | 0.71     | 0.04     | 0.71         | -0.16                             | -0.19     | 0.66     | -0.19     |              |         |         |  |
| Partition                       | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00         | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| Exposed Floor                   | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00         | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| Infiltration                    | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00         | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| Sub Total ==>                   | 0.62         | 0.27         | 3.98     | 0.69                                      | 12.32    | 0.69     | 12.32        | -0.31                             | -0.82     | 2.85     | -0.82     |              |         |         |  |
| Internal Loads                  |              |              |          |   |          |          |              |                                   |           |          |           |              |         |         |  |
| Lights                          | 0.94         | 0.00         | 4.21     | 0.94                                      | 16.79    | 0.94     | 16.79        | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| People                          | 0.79         | 0.00         | 3.54     | 0.44                                      | 7.86     | 0.44     | 7.86         | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| Misc                            | 3.50         | 0.00         | 15.67    | 3.50                                      | 62.50    | 3.50     | 62.50        | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| Sub Total ==>                   | 5.23         | 0.00         | 23.41    | 4.88                                      | 87.14    | 4.88     | 87.14        | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| AIRFLOWS                        |              |              |          |   |          |          |              |                                   |           |          |           |              |         |         |  |
| Ceiling Load                    | 0.03         | -0.03        | 0.00     | 0.03                                      | 0.54     | 0.03     | 0.54         | -0.05                             | 0         | 0.00     | 0         |              |         |         |  |
| Ventilation Load                | 0.00         | 0.00         | 68.17    | 0.00                                      | 0.00     | 0.00     | 0.00         | 0.00                              | -21.56    | 74.99    | -21.56    |              |         |         |  |
| Adj Air Trans Heat              | 0            | 0            | 0        | 0   | 0        | 0        | 0            | 0                                 | 0         | 0        | 0         |              |         |         |  |
| Dehumid. Ov Sizing              | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00         | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| Ov/Undr Sizing                  | 0.00         | -0.97        | -4.34    | 0.00                                      | 0.00     | 0.00     | 0.00         | 0.00                              | 0.46      | -1.60    | 0.46      |              |         |         |  |
| Exhaust Heat                    | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00         | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| Sup. Fan Heat                   | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00         | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| Ret. Fan Heat                   | 0.72         | 0.00         | 3.22     | 0.72                                      | 3.22     | 0.72     | 3.22         | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| Duct Heat Pkup                  | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00         | 0.00                              | 0.00      | 0.00     | 0.00      |              |         |         |  |
| Reheat at Design                | 0.00         | 0.00         | 0.00     | 0.00                                      | 0.00     | 0.00     | 0.00         | 0.00                              | -6.83     | 23.76    | -6.83     |              |         |         |  |
| Grand Total ==>                 | 5.88         | -0.01        | 22.34    | 100.00                                    | 5.60     | 100.00   | 5.60         | -0.36                             | -28.75    | 100.00   | -28.75    |              |         |         |  |
| ENGINEERING CKS                 |              |              |          |   |          |          |              |                                   |           |          |           |              |         |         |  |
| % OA                            |              |              |          |   |          |          |              |                                   |           |          |           |              |         |         |  |
| Lps/m²                          |              |              |          |   |          |          |              |                                   |           |          |           |              |         |         |  |
| Lps/kW                          |              |              |          |   |          |          |              |                                   |           |          |           |              |         |         |  |
| m²/kW                           |              |              |          |   |          |          |              |                                   |           |          |           |              |         |         |  |
| W/m²                            |              |              |          |   |          |          |              |                                   |           |          |           |              |         |         |  |
| No. People                      |              |              |          |   |          |          |              |                                   |           |          |           |              |         |         |  |

| COOLING COIL SELECTION |           |              |       | AREAS       |        |              |      | HEATING COIL SELECTION |              |       |      |
|------------------------|-----------|--------------|-------|-------------|--------|--------------|------|------------------------|--------------|-------|------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | Gross Total | Glass  | Coil Airflow | Ent  | Capacity               | Coil Airflow | Ent   | Lvg  |
| kW                     | kW        | L/s          | °C    |             | m² (%) | L/s          | °C   | kW                     | L/s          | °C    | °C   |
| Main Clg               | 22.34     | 18.38        | 36.5  | Floor       | 47     | 700.1        | 13.5 | Main Htg               | -7.2         | 700.1 | 22.4 |
| Aux Clg                | 0.00      | 0.00         | 0.0   | Part        | 68     | 0            | 0    | Aux Htg                | 0.0          | 0     | 0    |
| Opt Vent               | 0.00      | 0.00         | 0.0   | ExFlr       | 0      | 0            | 0    | Preheat                | -14.7        | 700   | -5   |
| Total                  | 22.34     | 0.00         | 0.0   | Roof        | 47     | 0            | 0    | Reheat                 | -6.8         | 700   | 13   |
|                        |           |              |       | Wall        | 20     | 4            | 18   | Humidif                | -14.8        | 700   | 22.0 |
|                        |           |              |       |             |        |              |      | Opt Vent               | 0.0          | 0     | 8.1  |
|                        |           |              |       |             |        |              |      | Total                  | -36.7        | 0     | 0.0  |



System Checksums

By GOCSA

CL0212-QUIROFANO

Single Zone

| COOLING COIL PEAK  |   |  |   | CLG SPACE PEAK   |   |  |  | HEATING COIL PEAK              |                    |                  |            | TEMPERATURES |         |  |  |
|--|---|--|---|--|---|--|--|--------------------------------|--------------------|------------------|------------|--------------|---------|--|--|
| Peaked at Time: Mo/Hr: 7 / 15<br>Outside Air: OADB/WB/HR: 36 / 22 / 11 |   |  |   | Mo/Hr: Sum of OADB: Peaks  |   |  |  | Mo/Hr: Heating Design OADB: -5 |                    |                  |            |              |         |  |  |
| Envelope Loads   | Space Sens. + Lat.  | Plenum Sens. + Lat   | Net Total   | Percent Of Total   | Space Sensible  | Percent Of Total   | Envelope Loads   | Space Peak Sens                | Coil Peak Tot Sens | Percent Of Total | SADB       | Cooling      | Heating |  |  |
|  | kW  | kW   | kW  | (%)  | kW  | (%)  |  | kW                             | kW                 | (%)              |            |              |         |  |  |
|  | 0.00  | 0.00   | 0.00  | 0.00   | 0.00  | 0.00   | Skyllite Solar   | 0.00                           | 0.00               | 0.00             | 15.4       | 22.3         | 21.4    |  |  |
|  | 0.00  | 0.00   | 0.00  | 0.00   | 0.00  | 0.00   | Skyllite Cond  | 0.00                           | 0.00               | 0.00             | Plenum     | 22.3         | 21.4    |  |  |
|  | 0.00  | 0.26   | 0.26  | 1.16   | 0.00  | 0.00   | Roof Cond  | 0.00                           | -0.48              | 1.68             | Return     | 23.2         | 21.4    |  |  |
|  | 0.28  | 0.00   | 0.28  | 1.25   | 0.30  | 5.64   | Glass Solar  | 0.00                           | 0.00               | 0.00             | Ret/OA     | 36.5         | -4.9    |  |  |
|  | 0.06  | 0.00   | 0.06  | 0.27   | 0.06  | 1.13   | Glass Cond   | -0.15                          | -0.15              | 0.53             | Fn MtrTD   | 0.2          | 0.0     |  |  |
|  | 0.04  | 0.01   | 0.05  | 0.22   | 0.05  | 0.94   | Wall Cond  | -0.16                          | -0.19              | 0.67             | Fn BldTD   | 0.4          | 0.0     |  |  |
|  | 0.00  | 0.00   | 0.00  | 0.00   | 0.00  | 0.00   | Partition  | 0.00                           | 0.00               | 0.00             | Fn Frict   | 1.1          | 0.0     |  |  |
|  | 0.00  | 0.00   | 0.00  | 0.00   | 0.00  | 0.00   | Exposed Floor  | 0.00                           | 0.00               | 0.00             |            |              |         |  |  |
| Internal Loads   | 0.00 <th>0.00<th>0.00<th>0.00<th>0.00<th>0.00<th>Infiltration<td>0.00</td><td>0.00</td><td>0.00</td><th>Vent</th><th>700</th><th>700</th></th></th></th></th></th></th> | 0.00 <th>0.00<th>0.00<th>0.00<th>0.00<th>Infiltration<td>0.00</td><td>0.00</td><td>0.00</td><th>Vent</th><th>700</th><th>700</th></th></th></th></th></th> | 0.00 <th>0.00<th>0.00<th>0.00<th>Infiltration<td>0.00</td><td>0.00</td><td>0.00</td><th>Vent</th><th>700</th><th>700</th></th></th></th></th> | 0.00 <th>0.00<th>0.00<th>Infiltration<td>0.00</td><td>0.00</td><td>0.00</td><th>Vent</th><th>700</th><th>700</th></th></th></th> | 0.00 <th>0.00<th>Infiltration<td>0.00</td><td>0.00</td><td>0.00</td><th>Vent</th><th>700</th><th>700</th></th></th> | 0.00 <th>Infiltration<td>0.00</td><td>0.00</td><td>0.00</td><th>Vent</th><th>700</th><th>700</th></th> | Infiltration <td>0.00</td> <td>0.00</td> <td>0.00</td> <th>Vent</th> <th>700</th> <th>700</th> | 0.00                           | 0.00               | 0.00             | Vent       | 700          | 700     |  |  |
|  | 0.38  | 0.27   | 0.65  | 2.90   | 0.41  | 7.71   | Sub Total ==>  | -0.31                          | -0.82              | 2.88             | Infil      | 0            | 0       |  |  |
|  | Internal Loads  |  |   |  |   |  |  |                                |                    |                  | Supply     | 700          | 700     |  |  |
|  | Lights  | 0.94   | 0.00  | 0.94   | 17.67   | 0.94   | Lights   | 0.00                           | 0.00               | 0.00             | MinStop/Rh | 700          | 700     |  |  |
|  | People  | 0.79   | 0.00  | 0.79   | 8.27  | 0.44   | People   | 0.00                           | 0.00               | 0.00             | Return     | 700          | 700     |  |  |
|  | Misc  | 3.50   | 0.00  | 3.50   | 65.79   | 3.50   | Misc   | 0.00                           | 0.00               | 0.00             | Exhaust    | 700          | 700     |  |  |
|  | Sub Total ==>   | 5.23   | 0.00  | 5.23   | 91.73   | 4.88   | Sub Total ==>  | 0.00                           | 0.00               | 0.00             | Rm Exh     | 0            | 0       |  |  |
|  | Ceiling Load  | 0.03   | -0.03   | 0.00   | 0.56  | 0.03   | Ceiling Load   | -0.05                          | 0                  | 0.00             | Auxiliary  | 0            | 0       |  |  |
|  | Ventilation Load  | 0.00   | 0.00  | 15.42  | 0.00  | 0.00   | Ventilation Load   | 0.00                           | -21.56             | 75.60            |            |              |         |  |  |
|  | Adj Air Trans Heat  | 0  | 0   | 0  | 0   | 0  | Adj Air Trans Heat   | 0                              | 0                  | 0                |            |              |         |  |  |
| Engineering CKS  | Dehumid. Ov Sizing  | 0.00   | 0.00  | 0.00   | 0.00  | 0.00   | Ov/Undr Sizing   | 0.00                           | 0.00               | 0.00             | % OA       | 100.0        | 100.0   |  |  |
|  | Ov/Undr Sizing  | 0.00   | 0.00  | 0.00   | 0.00  | 0.00   | Exhaust Heat   | 0.46                           | 0.00               | -1.61            | Lps/m²     | 14.95        | 14.95   |  |  |
|  | Exhaust Heat  | -0.97  | -0.97   | -0.97  | -4.33   | 0.00   | OA Preheat Diff.   | 0.00                           | 0.00               | 0.00             | Lps/kW     | 31.25        |         |  |  |
|  | Sup. Fan Heat   | 1.24   | 0.72  | 1.24   | 5.54  | 0.00   | RA Preheat Diff.   | 0.00                           | 0.00               | 0.00             | m²/kW      | 2.09         |         |  |  |
|  | Ret. Fan Heat   | 0.72   | 0.72  | 0.72   | 3.22  | 0.00   | Additional Reheat  | -6.60                          | -6.60              | 23.14            | W/m²       | 478.31       | -784.17 |  |  |
|  | Duct Heat Pkup  | 0.00   | 0.00  | 0.00   | 0.00  | 0.00   |  |                                |                    |                  | No. People | 6            |         |  |  |
|  | Reheat at Design  | 0.00   | 0.00  | 0.00   | 0.00  | 0.00   |  |                                |                    |                  |            |              |         |  |  |
|  | Grand Total ==>   | 5.64   | -0.01   | 22.39  | 100.00  | 5.32   | Grand Total ==>  | -0.36                          | -28.52             | 100.00           |            |              |         |  |  |



System Checksums

By GOCSA

CL0213-QUIROFANO

Single Zone

| COOLING COIL PEAK                     |                    |                    |           | CLG SPACE PEAK   |                |                  |            | HEATING COIL PEAK     |                  |            |         | TEMPERATURES |  |  |  |
|---------------------------------------|--------------------|--------------------|-----------|------------------|----------------|------------------|------------|-----------------------|------------------|------------|---------|--------------|--|--|--|
| Peaked at Time: Mo/Hr: 7 / 15         |                    |                    |           | Mo/Hr: Sum of    |                |                  |            | Mo/Hr: Heating Design |                  |            |         |              |  |  |  |
| Outside Air: OADB/WB/HR: 36 / 22 / 11 |                    |                    |           | OADB: Peaks      |                |                  |            | OADB: -5              |                  |            |         |              |  |  |  |
| Envelope Loads                        | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total | Space Sensible | Percent Of Total | Space Peak | Coil Peak             | Percent Of Total | SADB       | Cooling | Heating      |  |  |  |
|                                       | kW                 | kW                 | kW        | (%)              | kW             | (%)              | kW         | Tot Sens kW           | (%)              |            |         |              |  |  |  |
|                                       | 0.00               | 0.00               | 0.00      | 0.00             | 0.00           | 0.00             | 0.00       | 0.00                  | 0.00             | 15.4       | 22.3    | 21.4         |  |  |  |
|                                       | 0.00               | 0.00               | 0.00      | 0.00             | 0.00           | 0.00             | 0.00       | 0.00                  | 0.00             | Plenum     | 22.4    | 21.4         |  |  |  |
|                                       | 0.00               | 0.26               | 0.26      | 1.19             | 0.00           | 0.00             | 0.00       | -0.47                 | 1.65             | Return     | 23.2    | 21.4         |  |  |  |
|                                       | 0.31               | 0.00               | 0.31      | 1.42             | 0.36           | 6.75             | 0.00       | 0.00                  | 0.00             | Ret/OA     | 36.5    | -4.9         |  |  |  |
|                                       | 0.03               | 0.00               | 0.03      | 0.14             | 0.03           | 0.56             | 0.00       | 0.00                  | 0.00             | Fn MtrTD   | 0.2     | 0.0          |  |  |  |
|                                       | 0.05               | 0.01               | 0.06      | 0.27             | 0.05           | 0.94             | -0.09      | -0.21                 | 0.74             | Fn BldTD   | 0.4     | 0.0          |  |  |  |
|                                       | 0.00               | 0.00               | 0.00      | 0.00             | 0.00           | 0.00             | 0.00       | 0.00                  | 0.00             | Fn Frict   | 1.1     | 0.0          |  |  |  |
|                                       | 0.00               | 0.00               | 0.00      | 0.00             | 0.00           | 0.00             | 0.00       | 0.00                  | 0.00             |            |         |              |  |  |  |
| AIRFLOWS                              |                    |                    |           |                  |                |                  |            |                       |                  |            |         |              |  |  |  |
| Exposed Floor                         | 0.00               | 0.00               | 0.00      | 0.00             | 0.00           | 0.00             | 0.00       | 0.00                  | 0.00             | Cooling    | 700     | 700          |  |  |  |
| Infiltration                          | 0.00               | 0.00               | 0.00      | 0.00             | 0.00           | 0.00             | 0.00       | 0.00                  | 0.00             | Heating    | 700     | 700          |  |  |  |
| Sub Total ==>                         | 0.39               | 0.27               | 0.66      | 3.02             | 0.44           | 8.26             | -0.26      | -0.77                 | 2.70             | Vent       | 0       | 0            |  |  |  |
|                                       |                    |                    |           |                  |                |                  |            |                       |                  | Infil      | 700     | 700          |  |  |  |
|                                       |                    |                    |           |                  |                |                  |            |                       |                  | Supply     | 700     | 700          |  |  |  |
|                                       |                    |                    |           |                  |                |                  |            |                       |                  | MinStop/Rh | 700     | 700          |  |  |  |
|                                       |                    |                    |           |                  |                |                  |            |                       |                  | Return     | 700     | 700          |  |  |  |
|                                       |                    |                    |           |                  |                |                  |            |                       |                  | Exhaust    | 700     | 700          |  |  |  |
|                                       |                    |                    |           |                  |                |                  |            |                       |                  | Rm Exh     | 0       | 0            |  |  |  |
|                                       |                    |                    |           |                  |                |                  |            |                       |                  | Auxiliary  | 0       | 0            |  |  |  |
|                                       |                    |                    |           |                  |                |                  |            |                       |                  |            |         |              |  |  |  |
| ENGINEERING CKS                       |                    |                    |           |                  |                |                  |            |                       |                  |            |         |              |  |  |  |
| Ceiling Load                          | 0.03               | -0.03              | 0.00      | 0.00             | 0.03           | 0.56             | -0.05      | 0                     | 0.00             | % OA       | Cooling | Heating      |  |  |  |
| Ventilation Load                      | 0.00               | 0.00               | 14.93     | 68.24            | 0.00           | 0.00             | 0.00       | -21.56                | 75.73            |            | 100.0   | 100.0        |  |  |  |
| Adj Air Trans Heat                    | 0                  |                    | 0         | 0                | 0              | 0                | 0          | 0                     | 0                |            |         |              |  |  |  |
| Dehumid. Ov Sizing                    |                    |                    | 0         | 0                |                |                  |            |                       |                  |            |         |              |  |  |  |
| Ov/Undr Sizing                        | 0.00               |                    | 0.00      | 0.00             | 0.00           | 0.00             | 0.00       | 0.00                  | 0.00             |            |         |              |  |  |  |
| Exhaust Heat                          |                    | -0.97              | -0.97     | -4.43            |                |                  | 0.46       | 0.46                  | -1.62            | Lps/m²     | 15.23   | 15.23        |  |  |  |
| Sup. Fan Heat                         |                    |                    | 1.24      | 5.67             |                |                  | 0.00       | 0.00                  | 0.00             | Lps/kW     | 31.98   |              |  |  |  |
| Ret. Fan Heat                         |                    | 0.72               | 0.72      | 3.29             |                |                  | -6.60      | -6.60                 | 23.18            | m²/kW      | 2.10    |              |  |  |  |
| Duct Heat Pkup                        |                    | 0.00               | 0.00      | 0.00             |                |                  |            |                       |                  | W/m²       | 476.00  | -797.58      |  |  |  |
| Reheat at Design                      |                    | 0.00               | 0.00      | 0.00             |                |                  |            |                       |                  |            |         |              |  |  |  |
| Grand Total ==>                       | 5.63               | -0.01              | 21.88     | 100.00           | 5.33           | 100.00           | -0.31      | -28.47                | 100.00           | No. People | 6       |              |  |  |  |



System Checksums

By GOCSA

CL0214-QUIROFANO

Single Zone

| COOLING COIL PEAK               |  |  |  |  |   |  |              |  |       | CLG SPACE PEAK               |          |  |          |  | HEATING COIL PEAK                 |  |            |  |           | TEMPERATURES   |          |  |          |  |                |  |         |  |  |                |  |  |  |  |                |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
|---------------------------------|--|--|--|--|---|--|--------------|--|-------|------------------------------|----------|--|----------|--|-----------------------------------|--|------------|--|-----------|----------------|----------|--|----------|--|----------------|--|---------|--|--|----------------|--|--|--|--|----------------|--|--|--|--|--------|--|--|--|--|--------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |  |              |  |       | Mo/Hr: Sum of<br>OADB: Peaks |          |  |          |  | Mo/Hr: Heating Design<br>OADB: -5 |  |            |  |           |                |          |  |          |  |                |  |         |  |  |                |  |  |  |  |                |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
|                                 |  |  |  |  | Space                                     |  | Plenum       |  | Net   |                              | Percent  |  | Space    |  | Percent                           |  | Space Peak |  | Coil Peak |                | Percent  |  | SADB     |  | Cooling        |  | Heating |  |  |                |  |  |  |  |                |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
|                                 |  |  |  |  | Sens. + Lat.                              |  | Sens. + Lat. |  | Total |                              | Of Total |  | Sensible |  | Of Total                          |  | Space Sens |  | Tot Sens  |                | Of Total |  | Plenum   |  | 22.3           |  | 22.8    |  |  |                |  |  |  |  |                |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
|                                 |  |  |  |  | kW  |  | kW           |  | kW    |                              | %        |  | kW       |  | %                                 |  | kW         |  | kW        |                | %        |  | Return   |  | 21.4           |  | 21.4    |  |  |                |  |  |  |  |                |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
|                                 |  |  |  |  | kW  |  | kW           |  | kW    |                              | %        |  | kW       |  | %                                 |  | kW         |  | kW        |                | %        |  | Ret/OA   |  | 36.5           |  | -4.9    |  |  |                |  |  |  |  |                |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
|                                 |  |  |  |  | kW  |  | kW           |  | kW    |                              | %        |  | kW       |  | %                                 |  | kW         |  | kW        |                | %        |  | Fn MtrTD |  | 0.2            |  | 0.0     |  |  |                |  |  |  |  |                |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
|                                 |  |  |  |  | kW  |  | kW           |  | kW    |                              | %        |  | kW       |  | %                                 |  | kW         |  | kW        |                | %        |  | Fn BldTD |  | 0.4            |  | 0.0     |  |  |                |  |  |  |  |                |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
|                                 |  |  |  |  | kW  |  | kW           |  | kW    |                              | %        |  | kW       |  | %                                 |  | kW         |  | kW        |                | %        |  | Fn Frict |  | 1.1            |  | 0.0     |  |  |                |  |  |  |  |                |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Envelope Loads                  |  |  |  |  |   |  |              |  |       | Envelope Loads               |          |  |          |  |                                   |  |            |  |           | Envelope Loads |          |  |          |  |                |  |         |  |  |                |  |  |  |  |                |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Skyllite Solar                  |  |  |  |  | Skyllite Solar                            |  |              |  |       | Skyllite Solar               |          |  |          |  | Skyllite Solar                    |  |            |  |           | Skyllite Solar |          |  |          |  | Skyllite Solar |  |         |  |  | Skyllite Solar |  |  |  |  | Skyllite Solar |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                      |  |              |  |       | 0.00                         |          |  |          |  | 0.00                              |  |            |  |           | 0.00           |          |  |          |  | 0.00           |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Skyllite Cond                   |  |  |  |  | Skyllite Cond                             |  |              |  |       | Skyllite Cond                |          |  |          |  | Skyllite Cond                     |  |            |  |           | Skyllite Cond  |          |  |          |  | Skyllite Cond  |  |         |  |  | Skyllite Cond  |  |  |  |  | Skyllite Cond  |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                      |  |              |  |       | 0.00                         |          |  |          |  | 0.00                              |  |            |  |           | 0.00           |          |  |          |  | 0.00           |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Roof Cond                       |  |  |  |  | Roof Cond                                 |  |              |  |       | Roof Cond                    |          |  |          |  | Roof Cond                         |  |            |  |           | Roof Cond      |          |  |          |  | Roof Cond      |  |         |  |  | Roof Cond      |  |  |  |  | Roof Cond      |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                      |  |              |  |       | 0.00                         |          |  |          |  | 0.00                              |  |            |  |           | 0.00           |          |  |          |  | 0.00           |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Glass Solar                     |  |  |  |  | Glass Solar                               |  |              |  |       | Glass Solar                  |          |  |          |  | Glass Solar                       |  |            |  |           | Glass Solar    |          |  |          |  | Glass Solar    |  |         |  |  | Glass Solar    |  |  |  |  | Glass Solar    |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| 0.86                            |  |  |  |  | 0.86                                      |  |              |  |       | 0.86                         |          |  |          |  | 0.94                              |  |            |  |           | 15.69          |          |  |          |  | 0.00           |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Glass Cond                      |  |  |  |  | Glass Cond                                |  |              |  |       | Glass Cond                   |          |  |          |  | Glass Cond                        |  |            |  |           | Glass Cond     |          |  |          |  | Glass Cond     |  |         |  |  | Glass Cond     |  |  |  |  | Glass Cond     |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| 0.09                            |  |  |  |  | 0.09                                      |  |              |  |       | 0.09                         |          |  |          |  | 0.07                              |  |            |  |           | 1.17           |          |  |          |  | 0.00           |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Wall Cond                       |  |  |  |  | Wall Cond                                 |  |              |  |       | Wall Cond                    |          |  |          |  | Wall Cond                         |  |            |  |           | Wall Cond      |          |  |          |  | Wall Cond      |  |         |  |  | Wall Cond      |  |  |  |  | Wall Cond      |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| 0.10                            |  |  |  |  | 0.12                                      |  |              |  |       | 0.52                         |          |  |          |  | 0.09                              |  |            |  |           | 1.50           |          |  |          |  | -0.37          |  |         |  |  | -0.45          |  |  |  |  | 1.53           |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Partition                       |  |  |  |  | Partition                                 |  |              |  |       | Partition                    |          |  |          |  | Partition                         |  |            |  |           | Partition      |          |  |          |  | Partition      |  |         |  |  | Partition      |  |  |  |  | Partition      |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                      |  |              |  |       | 0.00                         |          |  |          |  | 0.00                              |  |            |  |           | 0.00           |          |  |          |  | 0.00           |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Exposed Floor                   |  |  |  |  | Exposed Floor                             |  |              |  |       | Exposed Floor                |          |  |          |  | Exposed Floor                     |  |            |  |           | Exposed Floor  |          |  |          |  | Exposed Floor  |  |         |  |  | Exposed Floor  |  |  |  |  | Exposed Floor  |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                      |  |              |  |       | 0.00                         |          |  |          |  | 0.00                              |  |            |  |           | 0.00           |          |  |          |  | 0.00           |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Infiltration                    |  |  |  |  | Infiltration                              |  |              |  |       | Infiltration                 |          |  |          |  | Infiltration                      |  |            |  |           | Infiltration   |          |  |          |  | Infiltration   |  |         |  |  | Infiltration   |  |  |  |  | Infiltration   |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                      |  |              |  |       | 0.00                         |          |  |          |  | 0.00                              |  |            |  |           | 0.00           |          |  |          |  | 0.00           |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 1.05                                      |  |              |  |       | 1.33                         |          |  |          |  | 5.73                              |  |            |  |           | 1.10           |          |  |          |  | 18.36          |  |         |  |  | -0.60          |  |  |  |  | -1.15          |  |  |  |  | 3.90   |  |  |  |  |        |  |  |  |  |
| Internal Loads                  |  |  |  |  |   |  |              |  |       | Internal Loads               |          |  |          |  |                                   |  |            |  |           | Internal Loads |          |  |          |  |                |  |         |  |  |                |  |  |  |  |                |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Lights                          |  |  |  |  | 0.92                                      |  |              |  |       | 0.92                         |          |  |          |  | 15.36                             |  |            |  |           | 0.92           |          |  |          |  | 15.36          |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| People                          |  |  |  |  | 0.79                                      |  |              |  |       | 0.79                         |          |  |          |  | 7.35                              |  |            |  |           | 0.44           |          |  |          |  | 7.35           |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Misc                            |  |  |  |  | 3.50                                      |  |              |  |       | 3.50                         |          |  |          |  | 58.43                             |  |            |  |           | 3.50           |          |  |          |  | 58.43          |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 5.21                                      |  |              |  |       | 5.21                         |          |  |          |  | 22.44                             |  |            |  |           | 4.86           |          |  |          |  | 81.14          |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Ceiling Load                    |  |  |  |  |   |  |              |  |       | Ceiling Load                 |          |  |          |  |                                   |  |            |  |           | Ceiling Load   |          |  |          |  |                |  |         |  |  |                |  |  |  |  |                |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| 0.03                            |  |  |  |  | -0.03                                     |  |              |  |       | 0.00                         |          |  |          |  | 0.00                              |  |            |  |           | 0.03           |          |  |          |  | 0.50           |  |         |  |  | -0.05          |  |  |  |  | 0              |  |  |  |  | 0.00   |  |  |  |  |        |  |  |  |  |
| Ventilation Load                |  |  |  |  | 0.00                                      |  |              |  |       | 15.70                        |          |  |          |  | 67.61                             |  |            |  |           | 0.00           |          |  |          |  | 0.00           |  |         |  |  | 0.00           |  |  |  |  | -21.56         |  |  |  |  | 73.21  |  |  |  |  |        |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | 0   |  |              |  |       | 0                            |          |  |          |  | 0                                 |  |            |  |           | 0              |          |  |          |  | 0              |  |         |  |  | 0              |  |  |  |  | 0              |  |  |  |  | 0      |  |  |  |  |        |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | 0   |  |              |  |       | 0                            |          |  |          |  | 0                                 |  |            |  |           | 0              |          |  |          |  | 0              |  |         |  |  | 0              |  |  |  |  | 0              |  |  |  |  | 0      |  |  |  |  |        |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | 0.00                                      |  |              |  |       | 0.00                         |          |  |          |  | 0.00                              |  |            |  |           | 0.00           |          |  |          |  | 0.00           |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  | 0.00   |  |  |  |  |        |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | -0.98                                     |  |              |  |       | -0.98                        |          |  |          |  | -0.98                             |  |            |  |           | 0.00           |          |  |          |  | 0.00           |  |         |  |  | 0.50           |  |  |  |  | -1.70          |  |  |  |  | 15.23  |  |  |  |  |        |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | 1.24                                      |  |              |  |       | 5.34                         |          |  |          |  | 1.24                              |  |            |  |           | 5.34           |          |  |          |  | 0.00           |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  | 0.00   |  |  |  |  |        |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | 0.72                                      |  |              |  |       | 3.10                         |          |  |          |  | 0.72                              |  |            |  |           | 3.10           |          |  |          |  | 0.00           |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  | 0.00   |  |  |  |  |        |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  | 0.00                                      |  |              |  |       | 0.00                         |          |  |          |  | 0.00                              |  |            |  |           | 0.00           |          |  |          |  | 0.00           |  |         |  |  | 0.00           |  |  |  |  | 0.00           |  |  |  |  | 0.00   |  |  |  |  |        |  |  |  |  |
| Reheat at Design                |  |  |  |  | 0.00                                      |  |              |  |       | 0.00                         |          |  |          |  | 0.00                              |  |            |  |           | 0.00           |          |  |          |  | 0.00           |  |         |  |  | -7.24          |  |  |  |  | 24.58          |  |  |  |  |        |  |  |  |  |        |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | 6.29                                      |  |              |  |       | -0.01                        |          |  |          |  | 23.22                             |  |            |  |           | 100.00         |          |  |          |  | 5.99           |  |         |  |  | 100.00         |  |  |  |  | -0.65          |  |  |  |  | -29.45 |  |  |  |  | 100.00 |  |  |  |  |

| COOLING COIL SELECTION |       |       |       | AREAS       |    |  |  | HEATING COIL SELECTION |       |       |      |
|------------------------|-------|-------|-------|-------------|----|--|--|------------------------|-------|-------|------|
| Total Capacity<br>kW   |       |       |       | Gross Total |    |  |  | Capacity<br>kW         |       |       |      |
| Main Clg               | 23.22 | 18.79 | 700.1 | Floor       | 46 |  |  | Main Htg               | -7.9  | 700.1 | 13.0 |
| Aux Clg                | 0.00  | 0.00  | 0.00  | Part        | 44 |  |  | Aux Htg                | 0.0   | 0     | 0    |
| Opt Vent               | 0.00  | 0.00  | 0.00  | ExFlr       | 0  |  |  | Preheat                | -14.3 | 700   | -5   |
| Total                  | 23.22 |       |       | Roof        | 46 |  |  | Reheat                 | -7.2  | 700   | 13.0 |
|                        |       |       |       | Wall        | 44 |  |  | Humidif                | -14.8 | 700   | 0.5  |
|                        |       |       |       |             |    |  |  | Opt Vent               | 0.0   | 0     | 0.0  |
|                        |       |       |       |             |    |  |  | Total                  | -37.0 |       |      |



# System Checksums

By GOCSA

**CL0215-QUIROFANO**

## Single Zone

| COOLING COIL PEAK               |                 |   |                      | CLG SPACE PEAK               |                         |                                   |                                | HEATING COIL PEAK           |                            |                        |                     | TEMPERATURES |  |  |  |
|---------------------------------|-----------------|---|----------------------|------------------------------|-------------------------|-----------------------------------|--------------------------------|-----------------------------|----------------------------|------------------------|---------------------|--------------|--|--|--|
| Peaked at Time:<br>Outside Air: |                 | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |                      | Mo/Hr: Sum of<br>OADB: Peaks |                         | Mo/Hr: Heating Design<br>OADB: -5 |                                |                             |                            |                        |                     |              |  |  |  |
| Sens. + Lat.<br>kW              | Space<br>kW     | Plenum<br>Sens. + Lat<br>kW               | Net<br>Total<br>kW   | Percent<br>Of Total<br>(%)   | Space<br>Sensible<br>kW | Percent<br>Of Total<br>(%)        | Space Peak<br>Space Sens<br>kW | Coil Peak<br>Tot Sens<br>kW | Percent<br>Of Total<br>(%) |                        |                     |              |  |  |  |
| Envelope Loads                  |                 |   |                      |                              |                         |                                   |                                |                             |                            |                        |                     |              |  |  |  |
| Skylite Solar                   | 0.00            | 0.00                                      | 0.00                 | 0.00                         | 0.00                    | 0.00                              | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| Skylite Cond                    | 0.00            | 0.00                                      | 0.00                 | 0.00                         | 0.00                    | 0.00                              | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| Roof Cond                       | 0.00            | 0.26                                      | 0.26                 | 1.03                         | 0.00                    | 0.00                              | 0.00                           | -0.48                       | 1.66                       |                        |                     |              |  |  |  |
| Glass Solar                     | 0.38            | 0.00                                      | 0.38                 | 1.50                         | 0.74                    | 12.82                             | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| Glass Cond                      | 0.06            | 0.00                                      | 0.06                 | 0.24                         | 0.06                    | 1.04                              | -0.15                          | -0.15                       | 0.52                       |                        |                     |              |  |  |  |
| Wall Cond                       | 0.05            | 0.01                                      | 0.06                 | 0.24                         | 0.06                    | 1.04                              | -0.23                          | -0.28                       | 0.97                       |                        |                     |              |  |  |  |
| Partition                       | 0.00            | 0.00                                      | 0.00                 | 0.00                         | 0.00                    | 0.00                              | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| Exposed Floor                   | 0.00            | 0.00                                      | 0.00                 | 0.00                         | 0.00                    | 0.00                              | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| Infiltration                    | 0.00            | 0.00                                      | 0.00                 | 0.00                         | 0.00                    | 0.00                              | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| Sub Total ==>                   | 0.49            | 0.27                                      | 0.76                 | 3.01                         | 0.86                    | 14.90                             | -0.38                          | -0.91                       | 3.14                       |                        |                     |              |  |  |  |
| Internal Loads                  |                 |   |                      |                              |                         |                                   |                                |                             |                            |                        |                     |              |  |  |  |
| Lights                          | 0.94            | 0.00                                      | 0.94                 | 3.72                         | 0.94                    | 16.29                             | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| People                          | 0.79            | 0.00                                      | 0.79                 | 3.13                         | 0.44                    | 7.63                              | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| Misc                            | 3.50            | 0.00                                      | 3.50                 | 13.86                        | 3.50                    | 60.66                             | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| Sub Total ==>                   | 5.23            | 0.00                                      | 5.23                 | 20.71                        | 4.88                    | 84.58                             | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| Ceiling Load                    | 0.03            | -0.03                                     | 0.00                 | 0.00                         | 0.03                    | 0.52                              | -0.05                          | 0                           | 0.00                       |                        |                     |              |  |  |  |
| Ventilation Load                | 0.00            | 0.00                                      | 18.27                | 72.36                        | 0.00                    | 0.00                              | 0.00                           | -21.56                      | 74.34                      |                        |                     |              |  |  |  |
| Adj Air Trans Heat              | 0               | 0.00                                      | 0                    | 0                            | 0                       | 0                                 | 0.00                           | 0                           | 0                          |                        |                     |              |  |  |  |
| Dehumid. Ov Sizing              |                 |   | 0                    | 0                            |                         |                                   | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| Ov/Undr Sizing                  | 0.00            | -0.97                                     | 0.00                 | 0.00                         | 0.00                    | 0.00                              | 0.48                           | 0.00                        | -1.66                      |                        |                     |              |  |  |  |
| Exhaust Heat                    |                 |   | -0.97                | -3.84                        |                         |                                   | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| Sup. Fan Heat                   |                 |   | 1.24                 | 4.91                         |                         |                                   | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| Ret. Fan Heat                   |                 | 0.72                                      | 0.72                 | 2.85                         |                         |                                   | 0.00                           | 0.00                        | 0.00                       |                        |                     |              |  |  |  |
| Duct Heat PkUp                  |                 | 0.00                                      | 0.00                 | 0.00                         |                         |                                   | -7.01                          | 0.00                        | 24.17                      |                        |                     |              |  |  |  |
| Reheat at Design                |                 |   |                      |                              |                         |                                   |                                |                             |                            |                        |                     |              |  |  |  |
| Grand Total ==>                 | 5.75            | -0.01                                     | 25.25                | 100.00                       | 5.77                    | 100.00                            | -0.43                          | -29.00                      | 100.00                     |                        |                     |              |  |  |  |
| COOLING COIL SELECTION          |                 |   |                      |                              |                         |                                   |                                |                             |                            | HEATING COIL SELECTION |                     |              |  |  |  |
| Total Capacity<br>kW            | Sens Cap.<br>kW | Coil Airflow<br>L/s                       | Enter DB/WB/HR<br>°C | Leave DB/WB/HR<br>°C         | g/kg                    | g/kg                              | Gross Total                    | Glass<br>m²                 | (%)                        | Capacity<br>kW         | Coil Airflow<br>L/s | Ent<br>°C    |  |  |  |
| Main Cig                        | 25.26           | 18.25                                     | 700.1                | 36.5                         | 21.6                    | 11.5                              | Floor                          |                             |                            | -7.4                   | 700.1               | 13.3         |  |  |  |
| Aux Cig                         | 0.00            | 0.00                                      | 0.0                  | 0.0                          | 0.0                     | 0.0                               | Part                           |                             |                            | 0.0                    | 0                   | 0            |  |  |  |
| Opt Vent                        | 0.00            | 0.00                                      | 0.0                  | 0.0                          | 0.0                     | 0.0                               | ExFir                          |                             |                            | -14.6                  | 700                 | -5           |  |  |  |
| Total                           | 25.26           |   |                      |                              |                         |                                   | Roof                           |                             |                            | -7.0                   | 700                 | 13.3         |  |  |  |
|                                 |                 |   |                      |                              |                         |                                   | Wall                           |                             |                            | -14.8                  | 700                 | 0.5          |  |  |  |
|                                 |                 |   |                      |                              |                         |                                   |                                |                             |                            | 0.0                    | 0                   | 0.0          |  |  |  |
|                                 |                 |   |                      |                              |                         |                                   | Total                          |                             |                            | -36.8                  |                     | 0.0          |  |  |  |



System Checksums

By GOCSA

CL0216-QUIROFANO

Single Zone

| COOLING COIL PEAK               |  |  |  |  |   |  |  |  |  | CLG SPACE PEAK               |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK          |  |  |  |  |                                |  |  |  |  | TEMPERATURES                |  |  |  |  |                            |  |  |  |  |
|---------------------------------|--|--|--|--|---|--|--|--|--|------------------------------|--|--|--|--|-----------------------------------|--|--|--|--|----------------------------|--|--|--|--|--------------------------------|--|--|--|--|-----------------------------|--|--|--|--|----------------------------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |  |  |  |  | Mo/Hr: Sum of<br>OADB: Peaks |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB                       |  |  |  |  | Cooling                        |  |  |  |  | Heating                     |  |  |  |  |                            |  |  |  |  |
| Sens. + Lat.<br>kW              |  |  |  |  | Plenum<br>Sens. + Lat<br>kW               |  |  |  |  | Net<br>Total<br>kW           |  |  |  |  | Space<br>Sensible<br>kW           |  |  |  |  | Percent<br>Of Total<br>(%) |  |  |  |  | Space Peak<br>Space Sens<br>kW |  |  |  |  | Coil Peak<br>Tot Sens<br>kW |  |  |  |  | Percent<br>Of Total<br>(%) |  |  |  |  |
| Envelope Loads                  |  |  |  |  |   |  |  |  |  | Envelope Loads               |  |  |  |  |                                   |  |  |  |  | Envelope Loads             |  |  |  |  |                                |  |  |  |  | Envelope Loads              |  |  |  |  |                            |  |  |  |  |
| Skyllite Solar                  |  |  |  |  | Skyllite Solar                            |  |  |  |  | Skyllite Solar               |  |  |  |  | Skyllite Solar                    |  |  |  |  | Skyllite Solar             |  |  |  |  | Skyllite Solar                 |  |  |  |  | Skyllite Solar              |  |  |  |  | Skyllite Solar             |  |  |  |  |
| Skyllite Cond                   |  |  |  |  | Skyllite Cond                             |  |  |  |  | Skyllite Cond                |  |  |  |  | Skyllite Cond                     |  |  |  |  | Skyllite Cond              |  |  |  |  | Skyllite Cond                  |  |  |  |  | Skyllite Cond               |  |  |  |  | Skyllite Cond              |  |  |  |  |
| Roof Cond                       |  |  |  |  | Roof Cond                                 |  |  |  |  | Roof Cond                    |  |  |  |  | Roof Cond                         |  |  |  |  | Roof Cond                  |  |  |  |  | Roof Cond                      |  |  |  |  | Roof Cond                   |  |  |  |  | Roof Cond                  |  |  |  |  |
| Glass Solar                     |  |  |  |  | Glass Solar                               |  |  |  |  | Glass Solar                  |  |  |  |  | Glass Solar                       |  |  |  |  | Glass Solar                |  |  |  |  | Glass Solar                    |  |  |  |  | Glass Solar                 |  |  |  |  | Glass Solar                |  |  |  |  |
| Glass Cond                      |  |  |  |  | Glass Cond                                |  |  |  |  | Glass Cond                   |  |  |  |  | Glass Cond                        |  |  |  |  | Glass Cond                 |  |  |  |  | Glass Cond                     |  |  |  |  | Glass Cond                  |  |  |  |  | Glass Cond                 |  |  |  |  |
| Wall Cond                       |  |  |  |  | Wall Cond                                 |  |  |  |  | Wall Cond                    |  |  |  |  | Wall Cond                         |  |  |  |  | Wall Cond                  |  |  |  |  | Wall Cond                      |  |  |  |  | Wall Cond                   |  |  |  |  | Wall Cond                  |  |  |  |  |
| Partition                       |  |  |  |  | Partition                                 |  |  |  |  | Partition                    |  |  |  |  | Partition                         |  |  |  |  | Partition                  |  |  |  |  | Partition                      |  |  |  |  | Partition                   |  |  |  |  | Partition                  |  |  |  |  |
| Exposed Floor                   |  |  |  |  | Exposed Floor                             |  |  |  |  | Exposed Floor                |  |  |  |  | Exposed Floor                     |  |  |  |  | Exposed Floor              |  |  |  |  | Exposed Floor                  |  |  |  |  | Exposed Floor               |  |  |  |  | Exposed Floor              |  |  |  |  |
| Infiltration                    |  |  |  |  | Infiltration                              |  |  |  |  | Infiltration                 |  |  |  |  | Infiltration                      |  |  |  |  | Infiltration               |  |  |  |  | Infiltration                   |  |  |  |  | Infiltration                |  |  |  |  | Infiltration               |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | Sub Total ==>                             |  |  |  |  | Sub Total ==>                |  |  |  |  | Sub Total ==>                     |  |  |  |  | Sub Total ==>              |  |  |  |  | Sub Total ==>                  |  |  |  |  | Sub Total ==>               |  |  |  |  | Sub Total ==>              |  |  |  |  |
| Internal Loads                  |  |  |  |  |   |  |  |  |  | Internal Loads               |  |  |  |  |                                   |  |  |  |  | Internal Loads             |  |  |  |  |                                |  |  |  |  | Internal Loads              |  |  |  |  |                            |  |  |  |  |
| Lights                          |  |  |  |  | Lights                                    |  |  |  |  | Lights                       |  |  |  |  | Lights                            |  |  |  |  | Lights                     |  |  |  |  | Lights                         |  |  |  |  | Lights                      |  |  |  |  | Lights                     |  |  |  |  |
| People                          |  |  |  |  | People                                    |  |  |  |  | People                       |  |  |  |  | People                            |  |  |  |  | People                     |  |  |  |  | People                         |  |  |  |  | People                      |  |  |  |  | People                     |  |  |  |  |
| Misc                            |  |  |  |  | Misc                                      |  |  |  |  | Misc                         |  |  |  |  | Misc                              |  |  |  |  | Misc                       |  |  |  |  | Misc                           |  |  |  |  | Misc                        |  |  |  |  | Misc                       |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | Sub Total ==>                             |  |  |  |  | Sub Total ==>                |  |  |  |  | Sub Total ==>                     |  |  |  |  | Sub Total ==>              |  |  |  |  | Sub Total ==>                  |  |  |  |  | Sub Total ==>               |  |  |  |  | Sub Total ==>              |  |  |  |  |
| Ceiling Load                    |  |  |  |  |   |  |  |  |  | Ceiling Load                 |  |  |  |  |                                   |  |  |  |  | Ceiling Load               |  |  |  |  |                                |  |  |  |  | Ceiling Load                |  |  |  |  |                            |  |  |  |  |
| Ventilation Load                |  |  |  |  | Ventilation Load                          |  |  |  |  | Ventilation Load             |  |  |  |  | Ventilation Load                  |  |  |  |  | Ventilation Load           |  |  |  |  | Ventilation Load               |  |  |  |  | Ventilation Load            |  |  |  |  | Ventilation Load           |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | Adj Air Trans Heat                        |  |  |  |  | Adj Air Trans Heat           |  |  |  |  | Adj Air Trans Heat                |  |  |  |  | Adj Air Trans Heat         |  |  |  |  | Adj Air Trans Heat             |  |  |  |  | Adj Air Trans Heat          |  |  |  |  | Adj Air Trans Heat         |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | Dehumid. Ov Sizing                        |  |  |  |  | Dehumid. Ov Sizing           |  |  |  |  | Dehumid. Ov Sizing                |  |  |  |  | Dehumid. Ov Sizing         |  |  |  |  | Dehumid. Ov Sizing             |  |  |  |  | Dehumid. Ov Sizing          |  |  |  |  | Dehumid. Ov Sizing         |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | Ov/Undr Sizing                            |  |  |  |  | Ov/Undr Sizing               |  |  |  |  | Ov/Undr Sizing                    |  |  |  |  | Ov/Undr Sizing             |  |  |  |  | Ov/Undr Sizing                 |  |  |  |  | Ov/Undr Sizing              |  |  |  |  | Ov/Undr Sizing             |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | Exhaust Heat                              |  |  |  |  | Exhaust Heat                 |  |  |  |  | Exhaust Heat                      |  |  |  |  | Exhaust Heat               |  |  |  |  | Exhaust Heat                   |  |  |  |  | Exhaust Heat                |  |  |  |  | Exhaust Heat               |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | Sup. Fan Heat                             |  |  |  |  | Sup. Fan Heat                |  |  |  |  | Sup. Fan Heat                     |  |  |  |  | Sup. Fan Heat              |  |  |  |  | Sup. Fan Heat                  |  |  |  |  | Sup. Fan Heat               |  |  |  |  | Sup. Fan Heat              |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | Ret. Fan Heat                             |  |  |  |  | Ret. Fan Heat                |  |  |  |  | Ret. Fan Heat                     |  |  |  |  | Ret. Fan Heat              |  |  |  |  | Ret. Fan Heat                  |  |  |  |  | Ret. Fan Heat               |  |  |  |  | Ret. Fan Heat              |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  | Duct Heat Pkup                            |  |  |  |  | Duct Heat Pkup               |  |  |  |  | Duct Heat Pkup                    |  |  |  |  | Duct Heat Pkup             |  |  |  |  | Duct Heat Pkup                 |  |  |  |  | Duct Heat Pkup              |  |  |  |  | Duct Heat Pkup             |  |  |  |  |
| Reheat at Design                |  |  |  |  | Reheat at Design                          |  |  |  |  | Reheat at Design             |  |  |  |  | Reheat at Design                  |  |  |  |  | Reheat at Design           |  |  |  |  | Reheat at Design               |  |  |  |  | Reheat at Design            |  |  |  |  | Reheat at Design           |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | Grand Total ==>                           |  |  |  |  | Grand Total ==>              |  |  |  |  | Grand Total ==>                   |  |  |  |  | Grand Total ==>            |  |  |  |  | Grand Total ==>                |  |  |  |  | Grand Total ==>             |  |  |  |  | Grand Total ==>            |  |  |  |  |
| No. People                      |  |  |  |  |   |  |  |  |  | No. People                   |  |  |  |  |                                   |  |  |  |  | No. People                 |  |  |  |  |                                |  |  |  |  | No. People                  |  |  |  |  |                            |  |  |  |  |
| 6                               |  |  |  |  |   |  |  |  |  | 6                            |  |  |  |  |                                   |  |  |  |  | 6                          |  |  |  |  |                                |  |  |  |  | 6                           |  |  |  |  |                            |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |                 |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |             |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |                     |  |  |  |  |
|------------------------|--|--|--|--|-----------------|--|--|--|--|------------------------|--|--|--|--|-------------|--|--|--|--|---------------------|--|--|--|--|-------------|--|--|--|--|---------------------|--|--|--|--|
| Total Capacity<br>kW   |  |  |  |  | Sens Cap.<br>kW |  |  |  |  | Coil Airflow<br>L/s    |  |  |  |  | Enter<br>°C |  |  |  |  | DB/WB/HR<br>°C g/kg |  |  |  |  | Leave<br>°C |  |  |  |  | DB/WB/HR<br>°C g/kg |  |  |  |  |
| Main Clg               |  |  |  |  | Main Clg        |  |  |  |  | Main Clg               |  |  |  |  | Main Clg    |  |  |  |  | Main Clg            |  |  |  |  | Main Clg    |  |  |  |  | Main Clg            |  |  |  |  |
| Aux Clg                |  |  |  |  | Aux Clg         |  |  |  |  | Aux Clg                |  |  |  |  | Aux Clg     |  |  |  |  | Aux Clg             |  |  |  |  | Aux Clg     |  |  |  |  | Aux Clg             |  |  |  |  |
| Opt Vent               |  |  |  |  | Opt Vent        |  |  |  |  | Opt Vent               |  |  |  |  | Opt Vent    |  |  |  |  | Opt Vent            |  |  |  |  | Opt Vent    |  |  |  |  | Opt Vent            |  |  |  |  |
| 25.25                  |  |  |  |  | 18.24           |  |  |  |  | 700.1                  |  |  |  |  | 36.5        |  |  |  |  | 21.6                |  |  |  |  | 11.5        |  |  |  |  | 13.3                |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0.0                    |  |  |  |  | 0.0         |  |  |  |  | 0.0                 |  |  |  |  | 0.0         |  |  |  |  | 0.0                 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0.0                    |  |  |  |  | 0.0         |  |  |  |  | 0.0                 |  |  |  |  | 0.0         |  |  |  |  | 0.0                 |  |  |  |  |
| 25.25                  |  |  |  |  | 0.00            |  |  |  |  | 0.0                    |  |  |  |  | 0.0         |  |  |  |  | 0.0                 |  |  |  |  | 0.0         |  |  |  |  | 0.0                 |  |  |  |  |
| Total                  |  |  |  |  | Total           |  |  |  |  | Total                  |  |  |  |  | Total       |  |  |  |  | Total               |  |  |  |  | Total       |  |  |  |  |                     |  |  |  |  |
| -36.7                  |  |  |  |  | -36.7           |  |  |  |  | -36.7                  |  |  |  |  | -36.7       |  |  |  |  | -36.7               |  |  |  |  | -36.7       |  |  |  |  |                     |  |  |  |  |







System Checksums

By GOCSA

CL0218-QUIROFANO

Single Zone

| COOLING COIL PEAK  |  |                        |              | CLG SPACE PEAK            |                   |                      |                   | HEATING COIL PEAK              |                       |                      |            | TEMPERATURES |         |  |  |
|--|--|------------------------|--------------|---------------------------|-------------------|----------------------|-------------------|--------------------------------|-----------------------|----------------------|------------|--------------|---------|--|--|
| Peaked at Time: Mo/Hr: 7 / 15<br>Outside Air: OADB/WB/HR: 36 / 22 / 11 |  |                        |              | Mo/Hr: Sum of OADB: Peaks |                   |                      |                   | Mo/Hr: Heating Design OADB: -5 |                       |                      |            |              |         |  |  |
| Space Sens. + Lat. kW  |  | Plenum Sens. + Lat. kW | Net Total kW | Percent Of Total (%)      | Space Sensible kW | Percent Of Total (%) | Space Peak kW     |                                | Coil Peak Tot Sens kW | Percent Of Total (%) |            |              |         |  |  |
| Envelope Loads   |  |                        |              |                           |                   |                      |                   |                                |                       |                      |            |              |         |  |  |
| 0.00   |  | 0.00                   | 0.00         | 0.00                      | 0.00              | 0.00                 | 0.00              |                                | 0.00                  | 0.00                 | SADB       | Cooling      | Heating |  |  |
| 0.00   |  | 0.00                   | 0.00         | 0.00                      | 0.00              | 0.00                 | 0.00              |                                | 0.00                  | 0.00                 | Plenum     | 22.4         | 21.4    |  |  |
| 0.00   |  | 0.26                   | 0.26         | 1.03                      | 0.00              | 0.00                 | 0.00              |                                | -0.47                 | 1.63                 | Return     | 23.2         | 21.4    |  |  |
| 0.38   |  | 0.00                   | 0.38         | 1.51                      | 0.74              | 12.89                | 0.00              |                                | 0.00                  | 0.00                 | Ret/OA     | 36.5         | -4.9    |  |  |
| 0.06   |  | 0.00                   | 0.06         | 0.24                      | 0.06              | 1.05                 | 0.00              |                                | 0.00                  | 0.00                 | Fn MtrTD   | 0.2          | 0.0     |  |  |
| 0.04   |  | 0.01                   | 0.05         | 0.20                      | 0.05              | 0.87                 | 0.00              |                                | 0.00                  | 0.00                 | Fn BldTD   | 0.4          | 0.0     |  |  |
| 0.00   |  | 0.00                   | 0.00         | 0.00                      | 0.00              | 0.00                 | 0.00              |                                | 0.00                  | 0.00                 | Fn Frict   | 1.1          | 0.0     |  |  |
| 0.00   |  | 0.00                   | 0.00         | 0.00                      | 0.00              | 0.00                 | 0.00              |                                | 0.00                  | 0.00                 |            |              |         |  |  |
| Exposed Floor  |  |                        | 0.00         | 0.00                      | 0.00              | 0.00                 | Exposed Floor     |                                | 0.00                  | 0.00                 |            |              |         |  |  |
| Infiltration   |  |                        | 0.00         | 0.00                      | 0.00              | 0.00                 | Infiltration      |                                | 0.00                  | 0.00                 |            |              |         |  |  |
| Sub Total ==>  |  | 0.27                   | 0.75         | 2.97                      | 0.85              | 14.81                | Sub Total ==>     |                                | -0.30                 | -0.81                |            |              |         |  |  |
| Internal Loads   |  |                        |              |                           |                   |                      |                   |                                |                       |                      |            |              |         |  |  |
| 0.92   |  | 0.00                   | 0.92         | 3.65                      | 0.92              | 16.03                | 0.00              |                                | 0.00                  | 0.00                 | Vent       | 700          | 700     |  |  |
| 0.79   |  | 0.00                   | 0.79         | 3.13                      | 0.44              | 7.67                 | 0.00              |                                | 0.00                  | 0.00                 | Infil      | 0            | 0       |  |  |
| 3.50   |  | 0.00                   | 3.50         | 13.88                     | 3.50              | 60.98                | 0.00              |                                | 0.00                  | 0.00                 | Supply     | 700          | 700     |  |  |
| 5.21   |  | 0.00                   | 5.21         | 20.66                     | 4.86              | 84.67                | 0.00              |                                | 0.00                  | 0.00                 | MinStop/Rh | 700          | 700     |  |  |
|  |  |                        |              |                           |                   |                      |                   |                                |                       |                      | Return     | 700          | 700     |  |  |
|  |  |                        |              |                           |                   |                      |                   |                                |                       |                      | Exhaust    | 700          | 700     |  |  |
|  |  |                        |              |                           |                   |                      |                   |                                |                       |                      | Rm Exh     | 0            | 0       |  |  |
|  |  |                        |              |                           |                   |                      |                   |                                |                       |                      | Auxiliary  | 0            | 0       |  |  |
| ENGINEERING CKS  |  |                        |              |                           |                   |                      |                   |                                |                       |                      |            |              |         |  |  |
| 0.03   |  | -0.03                  | 0.00         | 0.00                      | 0.03              | 0.52                 | -0.05             |                                | 0                     | 0.00                 | % OA       | Cooling      | Heating |  |  |
| 0.00   |  | 0.00                   | 18.27        | 72.44                     | 0.00              | 0.00                 | 0.00              |                                | -21.56                | 74.65                | Lps/m²     | 15.21        | 15.21   |  |  |
| 0  |  | 0                      | 0            | 0                         | 0                 | 0                    | 0.00              |                                | 0                     | 0.00                 | Lps/kW     | 27.74        |         |  |  |
| Dehumid. Ov Sizing   |  |                        | 0            | 0                         |                   |                      | Ov/Undr Sizing    |                                | 0.00                  | 0.00                 | m²/kW      | 1.82         | -796.35 |  |  |
| Ov/Undr Sizing   |  |                        | 0.00         | 0.00                      | 0.00              | 0.00                 | Exhaust Heat      |                                | 0.46                  | -1.59                | W/m²       | 547.84       |         |  |  |
| Exhaust Heat   |  | -0.97                  | -0.97        | -3.85                     | -0.97             | -3.85                | OA Preheat Diff.  |                                | 0.00                  | 0.00                 | No. People | 6            |         |  |  |
| Sup. Fan Heat  |  |                        | 1.24         | 4.92                      |                   |                      | RA Preheat Diff.  |                                | 0.00                  | 0.00                 |            |              |         |  |  |
| Ret. Fan Heat  |  | 0.72                   | 0.72         | 2.85                      |                   |                      | Additional Reheat |                                | -6.97                 | 24.13                |            |              |         |  |  |
| Duct Heat Pkup   |  | 0.00                   | 0.00         | 0.00                      | 0.00              | 0.00                 |                   |                                |                       |                      |            |              |         |  |  |
| Reheat at Design   |  | 0.00                   | 0.00         | 0.00                      |                   |                      |                   |                                |                       |                      |            |              |         |  |  |
| Grand Total ==>  |  | 5.72                   | -0.01        | 25.22                     | 100.00            | 5.74                 | Grand Total ==>   |                                | -0.35                 | -28.88               |            |              |         |  |  |



System Checksums

By GOCSA

CL0219-QUIROFANO

Single Zone

| COOLING COIL PEAK               |  |             |                             | CLG SPACE PEAK                            |                            |                         |                            | HEATING COIL PEAK                 |                             |                            |        | TEMPERATURES |            |         |         |  |
|---------------------------------|--|-------------|-----------------------------|---|----------------------------|-------------------------|----------------------------|-----------------------------------|-----------------------------|----------------------------|--------|--------------|------------|---------|---------|--|
| Peaked at Time:<br>Outside Air: |  |             |                             | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |                            |                         |                            | Mo/Hr: Heating Design<br>OADB: -5 |                             |                            |        |              |            |         |         |  |
| Sens. + Lat.                    |  | Space<br>kW | Plenum<br>Sens. + Lat<br>kW | Net<br>Total<br>kW                        | Percent<br>Of Total<br>(%) | Space<br>Sensible<br>kW | Percent<br>Of Total<br>(%) | Space Peak<br>Space Sens<br>kW    | Coil Peak<br>Tot Sens<br>kW | Percent<br>Of Total<br>(%) |        |              |            |         |         |  |
| Envelope Loads                  |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
| Skyllite Solar                  |  |             |                             | 0.00                                      | 0.00                       | 0.00                    | 0.00                       | 0.00                              | 0.00                        | 0.00                       | 0.00   | SADB         |            | Cooling | Heating |  |
| Skyllite Cond                   |  |             |                             | 0.00                                      | 0.00                       | 0.00                    | 0.00                       | 0.00                              | 0.00                        | 0.00                       | 0.00   | Plenum       |            | 14.3    | 22.8    |  |
| Roof Cond                       |  |             |                             | 0.00                                      | 0.26                       | 1.09                    | 0.00                       | 0.00                              | 0.00                        | -0.47                      | 1.59   | Return       |            | 23.2    | 21.4    |  |
| Glass Solar                     |  |             |                             | 0.76                                      | 0.00                       | 0.76                    | 3.18                       | 1.22                              | 19.81                       | 0.00                       | 0.00   | Ret/OA       |            | 36.5    | -4.9    |  |
| Glass Cond                      |  |             |                             | 0.09                                      | 0.00                       | 0.09                    | 0.38                       | 0.04                              | 0.65                        | 0.00                       | 0.00   | Fn MtrTD     |            | 0.2     | 0.0     |  |
| Wall Cond                       |  |             |                             | 0.09                                      | 0.02                       | 0.11                    | 0.46                       | 0.03                              | 0.49                        | -0.24                      | 0.81   | Fn BldTD     |            | 0.4     | 0.0     |  |
| Partition                       |  |             |                             | 0.00                                      | 0.00                       | 0.00                    | 0.00                       | 0.00                              | 0.00                        | -0.37                      | 1.52   | Fn Frict     |            | 1.1     | 0.0     |  |
| Exposed Floor                   |  |             |                             | 0.00                                      | 0.00                       | 0.00                    | 0.00                       | 0.00                              | 0.00                        | 0.00                       | 0.00   |              |            |         |         |  |
| Infiltration                    |  |             |                             | 0.00                                      | 0.00                       | 0.00                    | 0.00                       | 0.00                              | 0.00                        | 0.00                       | 0.00   |              |            |         |         |  |
| Sub Total ==>                   |  |             |                             | 0.94                                      | 0.28                       | 1.22                    | 5.11                       | 1.29                              | 20.94                       | -0.61                      | -1.16  | 3.92         |            |         |         |  |
| Internal Loads                  |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
| Lights                          |  |             |                             | 0.92                                      | 3.85                       | 0.92                    | 14.94                      | 0.00                              | 0.00                        | 0.00                       | 0.00   | Vent         |            | Cooling | Heating |  |
| People                          |  |             |                             | 0.79                                      | 3.31                       | 0.44                    | 7.14                       | 0.00                              | 0.00                        | 0.00                       | 0.00   | Infil        |            | 700     | 700     |  |
| Misc                            |  |             |                             | 3.50                                      | 14.66                      | 3.50                    | 56.82                      | 0.00                              | 0.00                        | 0.00                       | 0.00   | Supply       |            | 700     | 700     |  |
| Sub Total ==>                   |  |             |                             | 5.21                                      | 21.82                      | 4.86                    | 78.90                      | 0.00                              | 0.00                        | 0.00                       | 0.00   | MinStop/Rh   |            | 700     | 700     |  |
| Ceiling Load                    |  |             |                             | 0.03                                      | 0.00                       | 0.01                    | 0.16                       | -0.05                             | 0                           | 0.00                       | 0.00   | Return       |            | 700     | 700     |  |
| Ventilation Load                |  |             |                             | 0.00                                      | 68.97                      | 0.00                    | 0.00                       | 0.00                              | -21.56                      | 72.79                      | 0.00   | Exhaust      |            | 700     | 700     |  |
| Adj Air Trans Heat              |  |             |                             | 0   | 0                          | 0                       | 0                          | 0                                 | 0                           | 0                          | 0.00   | Rm Exh       |            | 700     | 700     |  |
| Dehumid. Ov Sizing              |  |             |                             |   | 0                          |                         |                            | 0.00                              | 0.00                        | 0.00                       | 0.00   | Auxiliary    |            | 0       | 0       |  |
| Ov/Undr Sizing                  |  |             |                             | 0.00                                      | 0.00                       | 0.00                    | 0.00                       | 0.00                              | 0.50                        | -1.69                      | 0.00   |              |            |         |         |  |
| Exhaust Heat                    |  |             |                             |   | -0.98                      | -4.10                   |                            | 0.00                              | 0.00                        | 0.00                       | 0.00   |              |            |         |         |  |
| Sup. Fan Heat                   |  |             |                             |   | 1.24                       | 5.19                    |                            | 0.00                              | 0.00                        | 0.00                       | 0.00   |              |            |         |         |  |
| Ret. Fan Heat                   |  |             |                             |   | 0.72                       | 3.02                    |                            | 0.00                              | 0.00                        | 0.00                       | 0.00   |              |            |         |         |  |
| Duct Heat Pkup                  |  |             |                             |   | 0.00                       | 0.00                    |                            | 0.00                              | -7.40                       | 24.98                      | 0.00   |              |            |         |         |  |
| Reheat at Design                |  |             |                             |   | 0.00                       | 0.00                    |                            |                                   |                             |                            | 1.93   |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            | 518.82                            |                             | -803.20                    |        |              |            |         |         |  |
| Grand Total ==>                 |  |             |                             | 6.18                                      | -0.01                      | 23.88                   | 100.00                     | 6.16                              | 100.00                      | -0.66                      | -29.62 | 100.00       | No. People |         | 6       |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |
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|                                 |  |             |                             |   |                            |                         |                            |                                   |                             |                            |        |              |            |         |         |  |



# System Checksums

By GOCSA

CL0219-QUIROFANO\_CALOR

## Single Zone

| COOLING COIL PEAK                     |  |                 |              | CLG SPACE PEAK |                |               |             | HEATING COIL PEAK     |            |                        |         | TEMPERATURES |      |  |  |
|---------------------------------------|--|-----------------|--------------|----------------|----------------|---------------|-------------|-----------------------|------------|------------------------|---------|--------------|------|--|--|
| Peaked at Time: Mo/Hr: 7 / 15         |  |                 |              | Mo/Hr: Sum of  |                |               |             | Mo/Hr: Heating Design |            |                        |         |              |      |  |  |
| Outside Air: OADB/WB/HR: 36 / 22 / 11 |  |                 |              | OADB: Peaks    |                |               |             | OADB: -5              |            |                        |         |              |      |  |  |
| Sens. + Lat.                          |  | Plenum          | Net          | Space          | Percent        | Space Peak    | Coil Peak   | Percent               | SADB       | Cooling                | Heating |              |      |  |  |
| Sens. + Lat. kW                       |  | Sens. + Lat. kW | Total kW     | Sensible kW    | Of Total (%)   | Space Sens kW | Tot Sens kW | Of Total (%)          | Plenum     | L/s                    | °C      |              |      |  |  |
| Envelope Loads                        |  |                 |              |                |                |               |             |                       |            |                        |         |              |      |  |  |
| 0.00                                  |  | 0.00            | 0.00         | 0.00           | 0.00           | 0.00          | 0.00        | 0.00                  | 0.00       | 18.4                   | 27.0    |              |      |  |  |
| 0.00                                  |  | 0.00            | 0.00         | 0.00           | 0.00           | 0.00          | 0.00        | 0.00                  | 0.00       | 26.2                   | 25.3    |              |      |  |  |
| 0.00                                  |  | 0.19            | 0.19         | 0.00           | 1.05           | 0.00          | -0.54       | 1.64                  | Return     | 27.1                   | 25.3    |              |      |  |  |
| 0.76                                  |  | 0.00            | 0.76         | 1.22           | 20.13          | 0.00          | 0.00        | 0.00                  | Ret/OA     | 36.5                   | -4.9    |              |      |  |  |
| 0.06                                  |  | 0.00            | 0.06         | 0.01           | 0.33           | 0.00          | 0.00        | 0.00                  | Fn MtrTD   | 0.2                    | 0.0     |              |      |  |  |
| 0.04                                  |  | 0.01            | 0.05         | -0.03          | -0.50          | 0.00          | -0.28       | 0.85                  | Fn BldTD   | 0.4                    | 0.0     |              |      |  |  |
| 0.00                                  |  | 0.00            | 0.00         | 0.00           | 0.00           | 0.00          | -0.43       | 1.58                  | Fn Frict   | 1.1                    | 0.0     |              |      |  |  |
| 0.00                                  |  | 0.00            | 0.00         | 0.00           | 0.00           | 0.00          | 0.00        | 0.00                  |            |                        |         |              |      |  |  |
| 0.00                                  |  | 0.00            | 0.00         | 0.00           | 0.00           | 0.00          | 0.00        | 0.00                  |            |                        |         |              |      |  |  |
| 0.00                                  |  | 0.00            | 0.00         | 0.00           | 0.00           | 0.00          | 0.00        | 0.00                  |            |                        |         |              |      |  |  |
| 0.86                                  |  | 0.20            | 1.06         | 1.20           | 19.80          | -0.71         | -1.34       | 4.08                  |            |                        |         |              |      |  |  |
| Sub Total ==>                         |  |                 |              | 1.20           |                |               |             |                       |            |                        |         |              |      |  |  |
| Internal Loads                        |  |                 |              |                |                |               |             |                       |            |                        |         |              |      |  |  |
| 0.92                                  |  | 0.00            | 0.92         | 0.92           | 15.18          | 0.00          | 0.00        | 0.00                  | Vent       | 700                    | 700     |              |      |  |  |
| 0.79                                  |  | 0.00            | 0.79         | 0.44           | 7.26           | 0.00          | 0.00        | 0.00                  | Infilt     | 0                      | 0       |              |      |  |  |
| 3.50                                  |  | 0.00            | 3.50         | 3.50           | 57.76          | 0.00          | 0.00        | 0.00                  | Supply     | 700                    | 700     |              |      |  |  |
| 5.21                                  |  | 0.00            | 5.21         | 4.86           | 80.20          | 0.00          | 0.00        | 0.00                  | MinStop/Rh | 700                    | 700     |              |      |  |  |
| Sub Total ==>                         |  |                 |              | 4.86           |                |               |             | Return                |            |                        |         |              |      |  |  |
| 0.02                                  |  | -0.02           | 0.00         | 0.00           | 0.00           | -0.06         | 0           | 0.00                  | Exhaust    | 700                    | 700     |              |      |  |  |
| 0.00                                  |  | 0.00            | 10.70        | 0.00           | 0.00           | 0.00          | 0.00        | 75.43                 | Rm Exh     | 0                      | 0       |              |      |  |  |
| 0                                     |  | 0.00            | 0            | 0              | 0              | 0             | 0           | 0                     | Auxiliary  | 0                      | 0       |              |      |  |  |
| 0.00                                  |  | 0.00            | 0            | 0.00           | 0.00           | 0.00          | 0.00        | 0.00                  |            |                        |         |              |      |  |  |
| 0.00                                  |  | -0.90           | -0.90        | 0.00           | -4.99          | 0.00          | 0.00        | -1.74                 |            |                        |         |              |      |  |  |
| 0.72                                  |  | 0.00            | 0.72         | 0.72           | 6.88           | 0.00          | 0.00        | 0.00                  | % OA       | 100.0                  | 100.0   |              |      |  |  |
| 0.00                                  |  | 0.00            | 0.00         | 0.00           | 0.00           | 0.00          | -7.30       | 22.23                 | Lps/m²     | 15.21                  | 15.21   |              |      |  |  |
| 0.00                                  |  | 0.00            | 0.00         | 0.00           | 0.00           | 0.00          | 0.00        | 0.00                  | Lps/kW     | 38.83                  |         |              |      |  |  |
| 0.00                                  |  | 0.00            | 0.00         | 0.00           | 0.00           | 0.00          | 0.00        | 0.00                  | m²/kW      | 2.55                   |         |              |      |  |  |
| 0.00                                  |  | 0.00            | 0.00         | 0.00           | 0.00           | 0.00          | 0.00        | 0.00                  | W/m²       | 391.40                 | -969.85 |              |      |  |  |
| Grand Total ==>                       |  |                 |              | 18.03          |                |               |             | No. People            |            |                        |         | 6            |      |  |  |
|                                       |  |                 |              | 6.06           |                |               |             |                       |            |                        |         |              |      |  |  |
| COOLING COIL SELECTION                |  |                 |              |                |                |               |             |                       |            |                        |         |              |      |  |  |
| Total Capacity                        |  | Sens Cap.       | Coil Airflow | Enter DB/WB/HR | Leave DB/WB/HR | AREAS         |             |                       |            |                        |         |              |      |  |  |
| kW                                    |  | kW              | L/s          | °C             | °C             | Gross Total   |             | Glass                 |            | HEATING COIL SELECTION |         |              |      |  |  |
|                                       |  |                 |              |                |                |               |             | m² (%)                |            | Capacity               |         | Coil Airflow | Ent  |  |  |
|                                       |  |                 |              |                |                |               |             |                       |            | kW                     |         | L/s          | °C   |  |  |
| 18.02                                 |  | 15.38           | 700.1        | 36.5           | 21.6           | 46            |             | 46                    |            | -8.1                   |         | 700.1        | 16.9 |  |  |
| 0.00                                  |  | 0.00            | 0.0          | 0.0            | 0.0            | 44            |             | 44                    |            | 0.0                    |         | 0            | 0    |  |  |
| 0.00                                  |  | 0.00            | 0.0          | 0.0            | 0.0            | 0             |             | 0                     |            | -17.5                  |         | 700          | -5   |  |  |
| 0.00                                  |  | 0.00            | 0.0          | 0.0            | 0.0            | 46            |             | 46                    |            | -7.3                   |         | 700          | 16.9 |  |  |
| 18.02                                 |  |                 |              |                |                | 44            |             | 44                    |            | -19.1                  |         | 700          | 0.5  |  |  |
|                                       |  |                 |              |                |                |               |             |                       |            | 0.0                    |         | 0            | 0.0  |  |  |
|                                       |  |                 |              |                |                |               |             |                       |            | -44.7                  |         |              |      |  |  |
| COOLING COIL                          |  |                 |              |                |                |               |             |                       |            |                        |         |              |      |  |  |



System Checksums

By GOCSA

CL0220-SALA DESPERTAR

Single Zone

| COOLING COIL PEAK               |              |             |        | CLG SPACE PEAK                            |                     |                   |                     | HEATING COIL PEAK                 |                       |                     |                 | TEMPERATURES |         |  |  |
|---------------------------------|--------------|-------------|--------|---|---------------------|-------------------|---------------------|-----------------------------------|-----------------------|---------------------|-----------------|--------------|---------|--|--|
| Peaked at Time:<br>Outside Air: |              |             |        | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |                     |                   |                     | Mo/Hr: Heating Design<br>OADB: -5 |                       |                     |                 |              |         |  |  |
| Envelope Loads                  | Space        |             | Plenum | Net<br>Total                              | Percent<br>Of Total | Space<br>Sensible | Percent<br>Of Total | Space Peak<br>Space Sens          | Coil Peak<br>Tot Sens | Percent<br>Of Total | TEMPERATURES    |              |         |  |  |
|                                 | Sens. + Lat. | Sens. + Lat | kW     |   |                     |                   |                     |                                   |                       |                     | SADB            | Cooling      | Heating |  |  |
| Skylite Solar                   | 0.00         | 0.00        | 0.00   | 0.00                                      | 0.00                | 0.00              | 0.00                | 0.00                              | 0.00                  | 0.00                | 15.6            | 23.2         | 21.0    |  |  |
| Skylite Cond                    | 0.00         | 0.00        | 0.00   | 0.00                                      | 0.00                | 0.00              | 0.00                | 0.00                              | 0.00                  | 0.00                | 22.7            | 23.6         | 21.0    |  |  |
| Roof Cond                       | 0.00         | 0.82        | 0.82   | 1.87                                      | 0.00                | 0.00              | 0.00                | 0.00                              | -1.51                 | 2.99                | 36.5            | 4.9          | -4.9    |  |  |
| Glass Solar                     | 1.68         | 0.00        | 1.68   | 3.82                                      | 0.00                | 2.13              | 23.77               | 0.00                              | 0.00                  | 0.00                | 0.2             | 0.0          | 0.0     |  |  |
| Glass Cond                      | 0.33         | 0.00        | 0.33   | 0.75                                      | 3.68                | 0.33              | 3.68                | 0.00                              | 0.00                  | 0.00                | 0.4             | 0.0          | 0.0     |  |  |
| Wall Cond                       | 0.10         | 0.02        | 0.12   | 0.27                                      | 1.34                | 0.12              | 1.34                | -0.88                             | -0.60                 | 1.19                | 1.1             | 0.0          | 0.0     |  |  |
| Partition                       | 0.00         | 0.00        | 0.00   | 0.00                                      | 0.00                | 0.00              | 0.00                | 0.00                              | 0.00                  | 0.00                | 0               | 1.214        | 1.214   |  |  |
| Exposed Floor                   | 0.00         | 0.00        | 0.00   | 0.00                                      | 0.00                | 0.00              | 0.00                | 0.00                              | 0.00                  | 0.00                | 0               | 1.214        | 1.214   |  |  |
| Infiltration                    | 0.00         | 0.00        | 0.00   | 0.00                                      | 0.00                | 0.00              | 0.00                | 0.00                              | 0.00                  | 0.00                | 0               | 1.214        | 1.214   |  |  |
| Sub Total ==>                   | 2.11         | 0.84        | 2.95   | 6.72                                      | 28.79               | 2.58              | 28.79               | -1.35                             | -2.99                 | 5.91                |                 |              |         |  |  |
| Internal Loads                  |              |             |        |   |                     |                   |                     |                                   |                       |                     |                 | AIRFLOWS     |         |  |  |
| Lights                          | 1.32         | 0.33        | 1.65   | 3.76                                      | 14.73               | 1.32              | 14.73               | 0.00                              | 0.00                  | 0.00                | Vent            | 1,214        | 0       |  |  |
| People                          | 1.98         | 0.00        | 1.98   | 4.51                                      | 12.28               | 1.10              | 12.28               | 0.00                              | 0.00                  | 0.00                | Supply          | 1,214        | 1,214   |  |  |
| Misc                            | 3.75         | 0.00        | 3.75   | 8.54                                      | 41.85               | 3.75              | 41.85               | 0.00                              | 0.00                  | 0.00                | MinStop/Rh      | 1,214        | 1,214   |  |  |
| Sub Total ==>                   | 7.05         | 0.33        | 7.38   | 16.80                                     | 68.86               | 6.17              | 68.86               | 0.00                              | 0.00                  | 0.00                | Return          | 1,214        | 1,214   |  |  |
| Ceiling Load                    | 0.19         | -0.19       | 0.00   | 0.00                                      | 2.34                | 0.21              | 2.34                | -0.27                             | 0                     | 0.00                | Exhaust         | 1,214        | 1,214   |  |  |
| Ventilation Load                | 0.00         | 0.00        | 31.43  | 71.55                                     | 0.00                | 0.00              | 0.00                | 0.00                              | -37.38                | 73.90               | Rm Exh          | 0            | 0       |  |  |
| Adj Air Trans Heat              | 0            | 0.00        | 0      | 0   | 0                   | 0                 | 0                   | 0.00                              | 0.00                  | 0.00                | Auxiliary       | 0            | 0       |  |  |
| Dehumid. Ov Sizing              | 0.00         | -2.24       | 1      | 2   | 0.00                | 0.00              | 0.00                | 0.00                              | 0.00                  | 0.00                | ENGINEERING CKS |              |         |  |  |
| Ov/Undr Sizing                  | 0.00         | -2.24       | 0.00   | 0.00                                      | 0.00                | 0.00              | 0.00                | 0.00                              | 1.37                  | -2.71               | % OA            | 100.0        | 100.0   |  |  |
| Exhaust Heat                    | 0.00         | 1.26        | 2.15   | 4.89                                      | 0.00                | 0.00              | 0.00                | 0.00                              | 0.00                  | 0.00                | Lps/m²          | 8.07         | 8.07    |  |  |
| Sup. Fan Heat                   | 0.00         | 0.00        | 1.26   | 2.87                                      | 0.00                | 0.00              | 0.00                | 0.00                              | 0.00                  | 0.00                | Lps/kW          | 27.62        | 27.62   |  |  |
| Ret. Fan Heat                   | 0.00         | 0.00        | 0.00   | 0.00                                      | 0.00                | 0.00              | 0.00                | -11.58                            | -11.58                | 22.89               | m²/kW           | 3.42         | -432.40 |  |  |
| Duct Heat Pkup                  | 0.00         | 0.00        | 0.00   | 0.00                                      | 0.00                | 0.00              | 0.00                | -1.62                             | -50.58                | 100.00              | W/m²            | 291.98       | 15      |  |  |
| Reheat at Design                | 0.00         | 0.00        | 0.00   | 0.00                                      | 0.00                | 0.00              | 0.00                | -1.62                             | -50.58                | 100.00              | No. People      |              |         |  |  |
| Grand Total ==>                 | 9.35         | 0.00        | 43.93  | 100.00                                    | 8.96                | 100.00            | Grand Total ==>     | -1.62                             | -50.58                | 100.00              |                 |              |         |  |  |



System Checksums

By GOCSA

CL0221-PASILLO QUIROFANOS

Single Zone

| COOLING COIL PEAK                        |       |                     |           |                  | CLG SPACE PEAK            |                  |                    |                  |                  | HEATING COIL PEAK              |                    |                  |           |               | TEMPERATURES       |               |          |          |         |           |  |
|--|-------|---------------------|-----------|------------------|---------------------------|------------------|--------------------|------------------|------------------|--------------------------------|--------------------|------------------|-----------|---------------|--------------------|---------------|----------|----------|---------|-----------|--|
| Peaked at Time: OADB/WB/HR: 36 / 22 / 11 |       |                     |           |                  | Mo/Hr: Sum of OADB: Peaks |                  |                    |                  |                  | Mo/Hr: Heating Design OADB: -5 |                    |                  |           |               |                    |               |          |          |         |           |  |
| Space Sens. + Lat.                       |       | Plenum Sens. + Lat. | Net Total | Percent Of Total | Space Sensible            | Percent Of Total | Envelope Loads     |                  |                  | Space Peak Sens                | Coil Peak Tot Sens | Percent Of Total | SADB      | Plenum        | Return             | Fn MtrTD      | Fn BldTD | Fn Frict | Cooling | Heating   |  |
| kW                                       | kW    | kW                  | kW        | (%)              | kW                        | (%)              | Skyllite Solar     | Skyllite Cond    | Roof Cond        | Glass Solar                    | Glass Cond         | Wall Cond        | Partition | Exposed Floor | Infiltration       | Sub Total ==> |          |          |         |           |  |
| 0.00                                     | 0.00  | 0.00                | 0.00      | 0.00             | 0.00                      | 0.00             | 0.00               | 0.00             | 0.00             | 0.00                           | 0.00               | 0.00             | 0.00      | 0.00          | 0.00               | 0.00          | 0.00     | 0.00     | 0.00    | 0.00      |  |
| 0.00                                     | 0.00  | 0.00                | 0.00      | 0.00             | 0.00                      | 0.00             | 0.00               | 0.00             | 0.00             | 0.00                           | 0.00               | 0.00             | 0.00      | 0.00          | 0.00               | 0.00          | 0.00     | 0.00     | 15.3    | 23.0      |  |
| 0.00                                     | 2.20  | 2.20                | 2.20      | 2.39             | 0.00                      | 0.00             | 0.00               | 0.00             | 0.00             | 2.55                           | 12.03              | 0.12             | 0.57      | 0.58          | 0.00               | 3.53          | 0.00     | 0.00     | 22.8    | 21.0      |  |
| 1.97                                     | 0.00  | 0.00                | 1.97      | 2.14             | 0.00                      | 0.00             | 0.00               | 0.00             | 0.00             | 0.28                           | 1.32               | 0.12             | 0.57      | 0.58          | 0.00               | 3.53          | 0.00     | 0.00     | 23.7    | 21.0      |  |
| 0.29                                     | 0.00  | 0.00                | 0.29      | 0.32             | 0.00                      | 0.00             | 0.00               | 0.00             | 0.00             | 0.28                           | 1.32               | 0.12             | 0.57      | 0.58          | 0.00               | 3.53          | 0.00     | 0.00     | 36.5    | 4.8       |  |
| 0.11                                     | 0.03  | 0.03                | 0.14      | 0.15             | 0.00                      | 0.00             | 0.00               | 0.00             | 0.00             | 0.12                           | 0.57               | 0.12             | 0.57      | 0.58          | 0.00               | 3.53          | 0.00     | 0.00     | 0.2     | 0.0       |  |
| 0.45                                     | 0.00  | 0.00                | 0.45      | 0.49             | 0.00                      | 0.00             | 0.00               | 0.00             | 0.00             | 0.58                           | 2.74               | 0.12             | 0.57      | 0.58          | 0.00               | 3.53          | 0.00     | 0.00     | 0.4     | 0.0       |  |
| 0.00                                     | 0.00  | 0.00                | 0.00      | 0.00             | 0.00                      | 0.00             | 0.00               | 0.00             | 0.00             | 0.58                           | 2.74               | 0.12             | 0.57      | 0.58          | 0.00               | 3.53          | 0.00     | 0.00     | 1.1     | 0.0       |  |
| 0.00                                     | 0.00  | 0.00                | 0.00      | 0.00             | 0.00                      | 0.00             | 0.00               | 0.00             | 0.00             | 0.00                           | 0.00               | 0.00             | 0.00      | 0.00          | 0.00               | 3.53          | 0.00     | 0.00     |         |           |  |
| 2.82                                     | 2.23  | 2.23                | 5.05      | 5.50             | 2.82                      | 16.65            | Sub Total ==>      |                  |                  | -2.23                          | -6.38              | 5.52             | Vent      | Infil         | Supply             | MinStop/Rh    | Return   | Exhaust  | Rm Exh  | Auxiliary |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  | 2,761     | 0             | 2,771              | 2,771         | 2,771    | 2,761    | 0       | 0         |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
| Internal Loads                           |       |                     |           |                  | Internal Loads            |                  |                    |                  |                  | Internal Loads                 |                    |                  |           |               | Internal Loads     |               |          |          |         |           |  |
| 3.39                                     | 0.85  | 0.85                | 4.24      | 4.61             | 3.39                      | 15.99            | Lights             | People           | Misc             | Sub Total ==>                  | 0.00               | 0.00             | 0.00      | 0.00          | 0.00               | 0.00          | 0.00     | 0.00     | 0.00    | 0.00      |  |
| 6.59                                     | 0.00  | 0.00                | 6.59      | 7.17             | 3.60                      | 16.98            |                    |                  |                  |                                | 0.00               | 0.00             | 0.00      | 0.00          | 0.00               | 0.00          | 0.00     | 0.00     | 0.00    | 0.00      |  |
| 1.70                                     | 0.00  | 0.00                | 1.70      | 1.85             | 1.70                      | 8.02             |                    |                  |                  |                                | 0.00               | 0.00             | 0.00      | 0.00          | 0.00               | 0.00          | 0.00     | 0.00     | 0.00    | 0.00      |  |
| 11.68                                    | 0.85  | 0.85                | 12.53     | 13.63            | 8.69                      | 40.99            | Sub Total ==>      |                  |                  | 0.00                           | 0.00               | 0.00             | 0.00      | 0.00          | 0.00               | 0.00          | 0.00     | 0.00     | 0.00    | 0.00      |  |
| Ceiling Load                             |       |                     |           |                  | Ceiling Load              |                  |                    |                  |                  | Ceiling Load                   |                    |                  |           |               | Ceiling Load       |               |          |          |         |           |  |
| 0.62                                     | -0.62 | 0.00                | 0.00      | 0.00             | 0.65                      | 3.07             |                    |                  |                  |                                | -0.84              | 0                | -85.02    | 73.53         |                    |               |          |          |         |           |  |
| 0.00                                     | 0.00  | 0.00                | 60.56     | 65.90            | 0.00                      | 0.00             | Ventilation Load   |                  |                  | 0.00                           | 0.00               | 0.00             |           |               |                    |               |          |          |         |           |  |
| 0  | 0     | 0                   | 0         | 0                | 0                         | 0                | Adj Air Trans Heat |                  |                  | 0                              | 0.02               | -0.02            |           |               |                    |               |          |          |         |           |  |
| Dehumid. Ov Sizing                       |       |                     |           |                  | Dehumid. Ov Sizing        |                  |                    |                  |                  | Dehumid. Ov Sizing             |                    |                  |           |               | Dehumid. Ov Sizing |               |          |          |         |           |  |
| 8.31                                     | -5.42 | 8.31                | 8.31      | 9.04             | 8.33                      | 39.29            | Exhaust Heat       | OA Preheat Diff. | RA Preheat Diff. | Additional Reheat              | 3.30               | 0.00             | 0.00      | 0.00          | 0.00               | 0.00          | 0.00     | 0.00     | 6.22    | 6.22      |  |
| 0  | 0     | 0                   | -5.42     | -5.90            | 0.00                      | 0.00             |                    |                  |                  |                                | 0.00               | 0.00             | 0.00      | 0.00          | 0.00               | 0.00          | 0.00     | 0.00     | 30.14   |           |  |
| 0  | 0     | 0                   | 4.91      | 5.34             | 0.00                      | 0.00             | Sub Total ==>      |                  |                  | -27.54                         | 23.82              |                  |           |               |                    |               |          |          |         |           |  |
| 2.86                                     | 2.86  | 2.86                | 2.86      | 3.11             | 0.00                      | 0.00             | Sub Total ==>      |                  |                  | -27.54                         | 23.82              |                  |           |               |                    |               |          |          |         |           |  |
| 0.00                                     | 0.00  | 0.00                | 0.00      | 0.00             | 0.00                      | 0.00             | Sub Total ==>      |                  |                  | -27.54                         | 23.82              |                  |           |               |                    |               |          |          |         |           |  |
| 0.00                                     | 0.00  | 0.00                | 0.00      | 0.00             | 0.00                      | 0.00             | Sub Total ==>      |                  |                  | -27.54                         | 23.82              |                  |           |               |                    |               |          |          |         |           |  |
| Grand Total ==>                          |       |                     |           |                  | Grand Total ==>           |                  |                    |                  |                  | Grand Total ==>                |                    |                  |           |               | Grand Total ==>    |               |          |          |         |           |  |
| 23.43                                    | -0.10 | 91.90               | 100.00    | 100.00           | 21.20                     | 100.00           | Sub Total ==>      |                  |                  | -3.05                          | -115.62            | 100.00           |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |
|  |       |                     |           |                  |                           |                  |                    |                  |                  |                                |                    |                  |           |               |                    |               |          |          |         |           |  |

| COOLING COIL SELECTION |           |              |       | AREAS       |       |       |          | HEATING COIL SELECTION |              |      |      |
|------------------------|-----------|--------------|-------|-------------|-------|-------|----------|------------------------|--------------|------|------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | Gross Total | Glass | Leave | DB/WB/HR | Capacity               | Coil Airflow | Ent  | Lvg  |
| kW                     | kW        | L/s          | °C    | m²          | (%)   | °C    | g/kg     | kW                     | L/s          | °C   | °C   |
| 91.89                  | 72.72     | 2,770.6      | 36.5  | Floor       | 446   | 13.3  | 12.1     | -30.6                  | 2,770.6      | 13.3 | 23.0 |
| 0.00                   | 0.00      | 0.00         | 0.0   | Part        | 1,096 | 0.0   | 0.0      | 0.0                    | 0.0          | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0.00         | 0.0   | ExFlr       | 0     | 0.0   | 0.0      | -58.9                  | 2,771        | -5   | 14   |
| Opt Vent               |           |              |       | Roof        | 400   | 0.0   | 0.0      | -27.5                  | 2,771        | 13.3 | 22.0 |
| Total                  |           |              |       | Wall        | 75    | 19    | 25       | -58.2                  | 2,761        | 0.5  | 8.1  |
|                        |           |              |       | Total       |       |       |          | Opt Vent               | 0            | 0.0  | 0.0  |
|                        |           |              |       |             |       |       |          | -147.7                 |              |      |      |



System Checksums

By GOCSA

CL0222-ALMACEN LIMPIO QUIROFA

Single Zone

| COOLING COIL PEAK               |                 |                     |          | CLG SPACE PEAK                            |      |          |                  | HEATING COIL PEAK                 |             |           |       |
|---------------------------------|-----------------|---------------------|----------|---|------|----------|------------------|-----------------------------------|-------------|-----------|-------|
| Peaked at Time:<br>Outside Air: |                 |                     |          | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |      |          |                  | Mo/Hr: Heating Design<br>OADB: -5 |             |           |       |
| Total Capacity<br>kW            | Sens Cap.<br>kW | Coil Airflow<br>L/s | Enter °C | DB/WB/HR<br>°C                            | g/kg | Leave °C | DB/WB/HR<br>g/kg | Gross Total                       | Glass<br>m² | Glass (%) |       |
| 51.01                           | 30.95           | 1,321.4             | 36.5     | 21.6                                      | 11.5 | 14.8     | 10.3             | 117                               |             |           | Floor |
| 0.00                            | 0.00            | 0.0                 | 0.0      | 0.0                                       | 0.0  | 0.0      | 0.0              | 286                               |             |           | Part  |
| 0.00                            | 0.00            | 0.0                 | 0.0      | 0.0                                       | 0.0  | 0.0      | 0.0              | 0                                 |             |           | ExFlr |
| 51.01                           |                 |                     |          |   |      |          |                  | 117                               | 0           | 0         | Roof  |
|                                 |                 |                     |          |   |      |          |                  | 0                                 | 0           | 0         | Wall  |
| Total                           |                 |                     |          |   |      |          |                  |                                   |             |           |       |
| 51.01                           |                 |                     |          |   |      |          |                  |                                   |             |           |       |

| COOLING COIL SELECTION |                 |                     |          | HEATING COIL SELECTION |      |          |                  |
|------------------------|-----------------|---------------------|----------|------------------------|------|----------|------------------|
| Total Capacity<br>kW   | Sens Cap.<br>kW | Coil Airflow<br>L/s | Enter °C | DB/WB/HR<br>°C         | g/kg | Leave °C | DB/WB/HR<br>g/kg |
| 51.01                  | 30.95           | 1,321.4             | 36.5     | 21.6                   | 11.5 | 14.8     | 10.3             |
| 0.00                   | 0.00            | 0.0                 | 0.0      | 0.0                    | 0.0  | 0.0      | 0.0              |
| 0.00                   | 0.00            | 0.0                 | 0.0      | 0.0                    | 0.0  | 0.0      | 0.0              |
| 51.01                  |                 |                     |          |                        |      |          |                  |

| COOLING COIL PEAK               |                    |                              |                    | CLG SPACE PEAK                            |                         |                            |                    | HEATING COIL PEAK                 |                             |                            |  |
|---------------------------------|--------------------|------------------------------|--------------------|---|-------------------------|----------------------------|--------------------|-----------------------------------|-----------------------------|----------------------------|--|
| Peaked at Time:<br>Outside Air: |                    |                              |                    | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |                         |                            |                    | Mo/Hr: Heating Design<br>OADB: -5 |                             |                            |  |
| Total Capacity<br>kW            | Sens. + Lat.<br>kW | Plenum<br>Sens. + Lat.<br>kW | Net<br>Total<br>kW | Percent<br>Of Total<br>(%)                | Space<br>Sensible<br>kW | Percent<br>Of Total<br>(%) | Envelope Loads     | Space Peak<br>Space Sens<br>kW    | Coil Peak<br>Tot Sens<br>kW | Percent<br>Of Total<br>(%) |  |
| 0.00                            | 0.00               | 0.00                         | 0.00               | 0.00                                      | 0.00                    | 0.00                       | Skylite Solar      | 0.00                              | 0.00                        | 0.00                       |  |
| 0.00                            | 0.00               | 0.00                         | 0.00               | 0.00                                      | 0.00                    | 0.00                       | Skylite Cond       | 0.00                              | 0.00                        | 0.00                       |  |
| 0.00                            | 0.65               | 0.65                         | 0.65               | 1.27                                      | 0.00                    | 0.00                       | Roof Cond          | 0.00                              | -1.19                       | 2.30                       |  |
| 0.00                            | 0.00               | 0.00                         | 0.00               | 0.00                                      | 0.00                    | 0.00                       | Glass Solar        | 0.00                              | 0.00                        | 0.00                       |  |
| 0.00                            | 0.00               | 0.00                         | 0.00               | 0.00                                      | 0.00                    | 0.00                       | Glass Cond         | 0.00                              | 0.00                        | 0.00                       |  |
| 0.00                            | 0.00               | 0.00                         | 0.00               | 0.00                                      | 0.00                    | 0.00                       | Wall Cond          | 0.00                              | 0.00                        | 0.00                       |  |
| 0.00                            | 0.00               | 0.00                         | 0.00               | 0.00                                      | 0.00                    | 0.00                       | Partition          | 0.00                              | 0.00                        | 0.00                       |  |
| 0.00                            | 0.00               | 0.00                         | 0.00               | 0.00                                      | 0.00                    | 0.00                       | Exposed Floor      | 0.00                              | 0.00                        | 0.00                       |  |
| 0.00                            | 0.00               | 0.00                         | 0.00               | 0.00                                      | 0.00                    | 0.00                       | Infiltration       | 0.00                              | 0.00                        | 0.00                       |  |
| 0.00                            | 0.65               | 0.65                         | 0.65               | 1.27                                      | 0.00                    | 0.00                       | Sub Total ==>      | 0.00                              | -1.19                       | 2.30                       |  |
| Internal Loads                  |                    |                              |                    | Internal Loads                            |                         |                            |                    |                                   |                             |                            |  |
| 0.78                            | 0.20               | 0.20                         | 0.98               | 1.92                                      | 0.78                    | 40.00                      | Lights             | 0.00                              | 0.00                        | 0.00                       |  |
| 1.91                            | 0.00               | 0.00                         | 1.91               | 3.74                                      | 1.04                    | 53.33                      | People             | 0.00                              | 0.00                        | 0.00                       |  |
| 0.00                            | 0.00               | 0.00                         | 0.00               | 0.00                                      | 0.00                    | 0.00                       | Misc               | 0.00                              | 0.00                        | 0.00                       |  |
| 2.69                            | 0.20               | 0.20                         | 2.89               | 5.67                                      | 1.82                    | 93.33                      | Sub Total ==>      | 0.00                              | 0.00                        | 0.00                       |  |
| 0.10                            | -0.10              | -0.10                        | 0.00               | 0.00                                      | 0.13                    | 6.67                       | Ceiling Load       | -0.15                             | 0                           | 0.00                       |  |
| 0.00                            | 0.00               | 0.00                         | 34.49              | 67.61                                     | 0.00                    | 0.00                       | Ventilation Load   | 0.00                              | -40.69                      | 78.61                      |  |
| 0                               | 0                  | 0                            | 0                  | 0   | 0                       | 0                          | Adj Air Trans Heat | 0                                 | 0                           | 0                          |  |
| 0.00                            | -2.11              | -2.11                        | 11                 | 22  | 0.00                    | 0.00                       | Ov/Undr Sizing     | 0.00                              | 0.00                        | 0.00                       |  |
| 0.00                            | 0.00               | 0.00                         | 0.00               | 0.00                                      | 0.00                    | 0.00                       | Exhaust Heat       | 1.05                              | -2.03                       | -2.03                      |  |
| 0.00                            | 0.00               | 0.00                         | -2.11              | -4.14                                     | 0.00                    | 0.00                       | OA Preheat Diff.   | 0.00                              | 0.00                        | 0.00                       |  |
| 0.00                            | 2.34               | 2.34                         | 2.34               | 4.59                                      | 0.00                    | 0.00                       | RA Preheat Diff.   | 0.00                              | 0.00                        | 0.00                       |  |
| 0.00                            | 1.37               | 1.37                         | 1.37               | 2.69                                      | 0.00                    | 0.00                       | Additional Reheat  | -10.93                            | 21.12                       | 21.12                      |  |
| 0.00                            | 0.00               | 0.00                         | 0.00               | 0.00                                      | 0.00                    | 0.00                       |                    |                                   |                             |                            |  |
| 2.79                            | 0.01               | 0.01                         | 51.01              | 100.00                                    | 1.95                    | 100.00                     | Grand Total ==>    | -0.15                             | -51.76                      | 100.00                     |  |

| COOLING COIL SELECTION                    |       |           |              |       |      |       |      | HEATING COIL SELECTION |       |              |      |      |     |  |  |
|---|-------|-----------|--------------|-------|------|-------|------|------------------------|-------|--------------|------|------|-----|--|--|
| Total Capacity                            |       | Sens Cap. | Coil Airflow | Enter |      | Leave |      | Capacity               |       | Coil Airflow | Ent  | Lvg  |     |  |  |
| kW  |       | kW        | L/s          | °C    | °C   | g/kg  | °C   | g/kg                   | kW    | L/s          | °C   | °C   |     |  |  |
| Main Clg<br>Aux Clg<br>Opt Vent<br>Total/ | 51.01 | 30.95     | 1,321.4      | 36.5  | 21.6 | 11.5  | 14.8 | 10.3                   | -11.1 | 1,321.4      | 14.8 | 22.1 | 0   |  |  |
|   | 0.00  | 0.00      | 0.0          | 0.0   | 0.0  | 0.0   | 0.0  | 0.0                    | 0.0   | 0            | 0    | 0    | 0   |  |  |
|   | 0.00  | 0.00      | 0.0          | 0.0   | 0.0  | 0.0   | 0.0  | 0.0                    | -36.4 | 1,321        | -5   | 19   | 19  |  |  |
|   | 51.01 |           |              |       |      |       |      |                        | -10.9 | 1,321        | 14.8 | 22.0 | 8.1 |  |  |
|   |       |           |              |       |      |       |      |                        | -27.9 | 1,321        | 0.5  | 0.0  | 0.0 |  |  |
|   |       |           |              |       |      |       |      |                        | 0.0   | 0            | 0.0  | 0.0  | 0.0 |  |  |
|   |       |           |              |       |      |       |      |                        | -75.3 |              |      |      |     |  |  |



# System Checksums

By GOC SA

CL0223\_PREPARACION\_01

## Single Zone

| COOLING COIL PEAK            |  |       |        |       |  |          |          |          |            | CLG SPACE PEAK            |          |  |  |  |                                |  |  |  |  | HEATING COIL PEAK |  |  |  |  |  |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|------------------------------|--|-------|--------|-------|--|----------|----------|----------|------------|---------------------------|----------|--|--|--|--------------------------------|--|--|--|--|-------------------|--|--|--|--|--|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time: Outside Air: |  |       |        |       | Mo/Hr: 7 / 15 OADB/WB/HR: 36 / 22 / 11 |          |          |          |            | Mo/Hr: Sum of OADB: Peaks |          |  |  |  | Mo/Hr: Heating Design OADB: -5 |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.                 |  | Space | Plenum |       | Net                                    | Percent  | Space    | Percent  | Space Peak | Coil Peak                 | Percent  |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.                 |  | kW    | Sens.  | + Lat | kW                                     | Of Total | Sensible | Of Total | Space Sens | Tot Sens                  | Of Total |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                              |  | kW    | kW     | kW    | kW                                     | (%)      | kW       | (%)      | kW         | kW                        | (%)      |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Envelope Loads               |  |       |        |       |  |          |          |          |            | Envelope Loads            |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Solar                |  |       |        |       |  |          |          |          |            | Skylite Solar             |          |  |  |  |                                |  |  |  |  | SADB              |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Cond                 |  |       |        |       |  |          |          |          |            | Skylite Cond              |          |  |  |  |                                |  |  |  |  | Plenum            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Roof Cond                    |  |       |        |       |  |          |          |          |            | Roof Cond                 |          |  |  |  |                                |  |  |  |  | Return            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Solar                  |  |       |        |       |  |          |          |          |            | Glass Solar               |          |  |  |  |                                |  |  |  |  | Ret/OA            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Cond                   |  |       |        |       |  |          |          |          |            | Glass Cond                |          |  |  |  |                                |  |  |  |  | Fn Mtr/OA         |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Wall Cond                    |  |       |        |       |  |          |          |          |            | Wall Cond                 |          |  |  |  |                                |  |  |  |  | Fn BldTD          |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Partition                    |  |       |        |       |  |          |          |          |            | Partition                 |          |  |  |  |                                |  |  |  |  | Fn Frict          |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exposed Floor                |  |       |        |       |  |          |          |          |            | Exposed Floor             |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Infiltration                 |  |       |        |       |  |          |          |          |            | Infiltration              |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                |  |       |        |       |  |          |          |          |            | Sub Total ==>             |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Internal Loads               |  |       |        |       |  |          |          |          |            | Internal Loads            |          |  |  |  |                                |  |  |  |  | AIRFLOWS          |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Lights                       |  |       |        |       |  |          |          |          |            | Lights                    |          |  |  |  |                                |  |  |  |  | Cooling           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| People                       |  |       |        |       |  |          |          |          |            | People                    |          |  |  |  |                                |  |  |  |  | Heating           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Misc                         |  |       |        |       |  |          |          |          |            | Misc                      |          |  |  |  |                                |  |  |  |  | 728               |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                |  |       |        |       |  |          |          |          |            | Sub Total ==>             |          |  |  |  |                                |  |  |  |  | 728               |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ceiling Load                 |  |       |        |       |  |          |          |          |            | Ceiling Load              |          |  |  |  |                                |  |  |  |  | Supply            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ventilation Load             |  |       |        |       |  |          |          |          |            | Ventilation Load          |          |  |  |  |                                |  |  |  |  | MinStop/Rh        |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat           |  |       |        |       |  |          |          |          |            | Adj Air Trans Heat        |          |  |  |  |                                |  |  |  |  | Return            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing           |  |       |        |       |  |          |          |          |            | Ov/Undr Sizing            |          |  |  |  |                                |  |  |  |  | Exhaust           |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing               |  |       |        |       |  |          |          |          |            | Exhaust Heat              |          |  |  |  |                                |  |  |  |  | Rm Exh            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exhaust Heat                 |  |       |        |       |  |          |          |          |            | OA Preheat Diff.          |          |  |  |  |                                |  |  |  |  | Auxiliary         |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat                |  |       |        |       |  |          |          |          |            | RA Preheat Diff.          |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat                |  |       |        |       |  |          |          |          |            | Additional Reheat         |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Duct Heat PkUp               |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Reheat at Design             |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Grand Total ==>              |  |       |        |       |  |          |          |          |            | Grand Total ==>           |          |  |  |  |                                |  |  |  |  | No. People        |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 7.31                         |  |       |        |       |  |          |          |          |            | 6.20                      |          |  |  |  |                                |  |  |  |  | -30.26            |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| -0.01                        |  |       |        |       |  |          |          |          |            | -0.35                     |          |  |  |  |                                |  |  |  |  | 15                |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.21                        |  |       |        |       |  |          |          |          |            | 100.00                    |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 100.00                       |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| -463.87                      |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| No. People                   |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 15                           |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| -38.1                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Total                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 24.22                        |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.00                         |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                              |  |       |        |       |  |          |          |          |            |                           |          |  |  |  |                                |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |



System Checksums

By GOCSA

CL0224\_PREPARACION\_02

Single Zone

| COOLING COIL PEAK               |  |                       |              | CLG SPACE PEAK                            |                   |                     |                          | HEATING COIL PEAK                 |                       |                     |  | TEMPERATURES |  |  |  |
|---------------------------------|--|-----------------------|--------------|---|-------------------|---------------------|--------------------------|-----------------------------------|-----------------------|---------------------|--|--------------|--|--|--|
| Peaked at Time:<br>Outside Air: |  |                       |              | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |                   |                     |                          | Mo/Hr: Heating Design<br>OADB: -5 |                       |                     |  |              |  |  |  |
| Space<br>Sens. + Lat.           |  | Plenum<br>Sens. + Lat | Net<br>Total | Percent<br>Of Total                       | Space<br>Sensible | Percent<br>Of Total | Space Peak<br>Space Sens |                                   | Coil Peak<br>Tot Sens | Percent<br>Of Total |  |              |  |  |  |
| kW                              |  | kW                    | kW           | (%)                                       | kW                | (%)                 | kW                       |                                   | kW                    | (%)                 |  |              |  |  |  |
| Envelope Loads                  |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
| 0.00                            |  | 0.00                  | 0.00         | 0.00                                      | 0.00              | 0.00                | 0.00                     |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| 0.00                            |  | 0.00                  | 0.00         | 0.00                                      | 0.00              | 0.00                | 0.00                     |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| 0.00                            |  | 0.45                  | 0.45         | 1.85                                      | 0.00              | 0.00                | 0.00                     |                                   | -0.83                 | 2.73                |  |              |  |  |  |
| 0.25                            |  | 0.00                  | 0.25         | 1.03                                      | 0.37              | 5.94                | 0.00                     |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| 0.02                            |  | 0.00                  | 0.02         | 0.08                                      | 0.01              | 0.16                | 0.00                     |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| 0.02                            |  | 0.00                  | 0.02         | 0.08                                      | 0.00              | 0.00                | -0.06                    |                                   | -0.06                 | 0.20                |  |              |  |  |  |
| 0.04                            |  | 0.00                  | 0.04         | 0.16                                      | 0.01              | 0.16                | -0.07                    |                                   | -0.09                 | 0.30                |  |              |  |  |  |
| 0.00                            |  | 0.00                  | 0.00         | 0.00                                      | 0.00              | 0.00                | -0.09                    |                                   | -0.09                 | 0.30                |  |              |  |  |  |
| 0.00                            |  | 0.00                  | 0.00         | 0.00                                      | 0.00              | 0.00                | 0.00                     |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| 0.00                            |  | 0.00                  | 0.00         | 0.00                                      | 0.00              | 0.00                | 0.00                     |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| 0.33                            |  | 0.45                  | 0.78         | 3.20                                      | 0.39              | 6.26                | -0.22                    |                                   | -1.07                 | 3.52                |  |              |  |  |  |
| Sub Total ==>                   |  |                       |              |   |                   |                     | Sub Total ==>            |                                   |                       |                     |  |              |  |  |  |
| Internal Loads                  |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
| 0.72                            |  | 0.18                  | 0.90         | 3.70                                      | 0.72              | 11.56               | 0.00                     |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| 2.44                            |  | 0.00                  | 2.44         | 10.02                                     | 1.33              | 21.35               | 0.00                     |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| 3.75                            |  | 0.00                  | 3.75         | 15.41                                     | 3.75              | 60.19               | 0.00                     |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| 6.91                            |  | 0.18                  | 7.09         | 29.13                                     | 5.80              | 93.10               | 0.00                     |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| Sub Total ==>                   |  |                       |              |   |                   |                     | Sub Total ==>            |                                   |                       |                     |  |              |  |  |  |
| Ceiling Load                    |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
| 0.10                            |  | -0.10                 | 0.00         | 0.00                                      | 0.04              | 0.64                | -0.13                    |                                   | 0                     | 0.00                |  |              |  |  |  |
| 0.00                            |  | 0.00                  | 15.68        | 64.42                                     | 0.00              | 0.00                | 0.00                     |                                   | -22.54                | 74.05               |  |              |  |  |  |
| 0                               |  | 0                     | 0            | 0   | 0                 | 0                   | 0                        |                                   | 0                     | 0                   |  |              |  |  |  |
| Adj Air Trans Heat              |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
| 0.00                            |  | -1.30                 | 0.00         | 0.00                                      | 0.00              | 0.00                | 0.00                     |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| 0.00                            |  | 0.00                  | 0.00         | 0.00                                      | 0.00              | 0.00                | 0.00                     |                                   | 0.72                  | -2.37               |  |              |  |  |  |
| 0.00                            |  | 0.00                  | -1.30        | -5.34                                     | 0.00              | 0.00                | Exhaust Heat             |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| 0.00                            |  | 0.76                  | 1.30         | 5.34                                      | 0.00              | 0.00                | OA Preheat Diff.         |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| 0.00                            |  | 0.76                  | 0.76         | 3.12                                      | 0.00              | 0.00                | RA Preheat Diff.         |                                   | 0.00                  | 0.00                |  |              |  |  |  |
| 0.00                            |  | 0.00                  | 0.00         | 0.00                                      | 0.00              | 0.00                | Additional Reheat        |                                   | -7.55                 | 24.80               |  |              |  |  |  |
| 0.00                            |  | 0.00                  | 0.00         | 0.00                                      | 0.00              | 0.00                |                          |                                   |                       |                     |  |              |  |  |  |
| 0.00                            |  | 0.00                  | 0.00         | 0.00                                      | 0.00              | 0.00                |                          |                                   |                       |                     |  |              |  |  |  |
| 7.34                            |  | -0.01                 | 24.34        | 100.00                                    | 6.23              | 100.00              | Grand Total ==>          |                                   | -30.44                | 100.00              |  |              |  |  |  |
| Grand Total ==>                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
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|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
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|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
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|                                 |  |                       |              |   |                   |                     |                          |                                   |                       |                     |  |              |  |  |  |
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System Checksums

By GOCSA

FC0101-CONSULTAS OFTALMOLOG

Fan Coil

| COOLING COIL PEAK                    |  |  |  | CLG SPACE PEAK |  |  |  | HEATING COIL PEAK     |  |  |  | TEMPERATURES |  |  |  |
|--------------------------------------|--|--|--|----------------|--|--|--|-----------------------|--|--|--|--------------|--|--|--|
| Peaked at Time: Mo/Hr: 7 / 18        |  |  |  | Mo/Hr: Sum of  |  |  |  | Mo/Hr: Heating Design |  |  |  |              |  |  |  |
| Outside Air: OADB/WB/HR: 32 / 19 / 9 |  |  |  | OADB: Peaks    |  |  |  | OADB: -5              |  |  |  |              |  |  |  |
|                                      |  |  |  |                |  |  |  |                       |  |  |  |              |  |  |  |
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# System Checksums

By GOC SA

FC0203-MANTENIMIENTO PAB\_C

## Fan Coil

[illegible]



System Checksums

By GOCSA

FC0205 ADMINISTRACION

Fan Coil

| COOLING COIL PEAK               |  |  |  |  |  |  |             |  |       | CLG SPACE PEAK               |          |  |          |  | HEATING COIL PEAK                 |  |            |  |                   | TEMPERATURES |          |  |            |  |         |  |         |  |
|---------------------------------|--|--|--|--|--|--|-------------|--|-------|------------------------------|----------|--|----------|--|-----------------------------------|--|------------|--|-------------------|--------------|----------|--|------------|--|---------|--|---------|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 19<br>OADB/WB/HR: 30 / 17 / 8 |  |             |  |       | Mo/Hr: Sum of<br>OADB: Peaks |          |  |          |  | Mo/Hr: Heating Design<br>OADB: -5 |  |            |  |                   |              |          |  |            |  |         |  |         |  |
|                                 |  |  |  |  | Space                                    |  | Plenum      |  | Net   |                              | Percent  |  | Space    |  | Percent                           |  | Space Peak |  | Coil Peak         |              | Percent  |  | SADB       |  | Cooling |  | Heating |  |
|                                 |  |  |  |  | Sens. + Lat.                             |  | Sens. + Lat |  | Total |                              | Of Total |  | Sensible |  | Of Total                          |  | Space Sens |  | Tot Sens          |              | Of Total |  | Plenum     |  | 23.4    |  | 23.4    |  |
|                                 |  |  |  |  | kW                                       |  | kW          |  | kW    |                              | (%)      |  | kW       |  | (%)                               |  | kW         |  | kW                |              | (%)      |  | 24.2       |  | 24.2    |  |         |  |
| Envelope Loads                  |  |  |  |  | 0.00                                     |  | 0.00        |  | 0.00  |                              | 0.00     |  | 0.00     |  | 0.00                              |  | 0.00       |  | 0.00              |              | 0.00     |  | 0.00       |  | 0.00    |  | 0.00    |  |
| Skylite Solar                   |  |  |  |  | 0.00                                     |  | 0.00        |  | 0.00  |                              | 0.00     |  | 0.00     |  | 0.00                              |  | 0.00       |  | 0.00              |              | 0.00     |  | 0.00       |  | 24.2    |  | 21.9    |  |
| Skylite Cond                    |  |  |  |  | 0.00                                     |  | 0.00        |  | 0.00  |                              | 0.00     |  | 0.00     |  | 0.00                              |  | 0.00       |  | 0.00              |              | 0.00     |  | 0.00       |  | 24.2    |  | 21.9    |  |
| Roof Cond                       |  |  |  |  | 0.00                                     |  | 0.00        |  | 0.00  |                              | 0.00     |  | 0.00     |  | 0.00                              |  | 0.00       |  | 0.00              |              | 0.00     |  | 0.00       |  | 24.2    |  | 21.9    |  |
| Glass Solar                     |  |  |  |  | 3.71                                     |  | 0.00        |  | 3.71  |                              | 14.28    |  | 3.71     |  | 17.81                             |  | 0.00       |  | 0.00              |              | 0.00     |  | 0.00       |  | 0.00    |  | 0.00    |  |
| Glass Cond                      |  |  |  |  | 0.38                                     |  | 0.00        |  | 0.38  |                              | 1.46     |  | 0.38     |  | 1.82                              |  | -1.23      |  | -1.23             |              | -1.23    |  | 36.83      |  | 0.00    |  | 0.00    |  |
| Wall Cond                       |  |  |  |  | 0.12                                     |  | 0.04        |  | 0.16  |                              | 0.62     |  | 0.12     |  | 0.58                              |  | -0.62      |  | -0.62             |              | -0.85    |  | 25.45      |  | 0.00    |  | 0.00    |  |
| Partition                       |  |  |  |  | 0.00                                     |  | 0.00        |  | 0.00  |                              | 0.00     |  | 0.00     |  | 0.00                              |  | 0.00       |  | 0.00              |              | 0.00     |  | 0.00       |  | 0.00    |  | 0.00    |  |
| Exposed Floor                   |  |  |  |  | -0.03                                    |  | 0.00        |  | -0.03 |                              | -0.12    |  | -0.03    |  | -0.14                             |  | -1.26      |  | -1.26             |              | -1.26    |  | 37.72      |  | 0.00    |  | 0.00    |  |
| Infiltration                    |  |  |  |  | 0.00                                     |  | 0.00        |  | 0.00  |                              | 0.00     |  | 0.00     |  | 0.00                              |  | 0.00       |  | 0.00              |              | 0.00     |  | 0.00       |  | 0.00    |  | 0.00    |  |
| Sub Total ==>                   |  |  |  |  | 4.18                                     |  | 0.04        |  | 4.22  |                              | 16.24    |  | 4.18     |  | 20.07                             |  | -3.11      |  | -3.34             |              | 100.00   |  |            |  | Vent    |  | Cooling |  |
|                                 |  |  |  |  |  |  |             |  |       |                              |          |  |          |  |                                   |  |            |  |                   |              |          |  | Supply     |  | 1,959   |  | Heating |  |
| Internal Loads                  |  |  |  |  | 2.19                                     |  | 0.55        |  | 2.74  |                              | 10.55    |  | 2.19     |  | 10.51                             |  | 0.00       |  | 0.00              |              | 0.00     |  | MinStop/Rh |  | 0       |  | 0       |  |
| Lights                          |  |  |  |  | 10.42                                    |  | 0.00        |  | 10.42 |                              | 40.11    |  | 5.74     |  | 27.56                             |  | 0.00       |  | 0.00              |              | 0.00     |  | Return     |  | 1,959   |  | 1,959   |  |
| People                          |  |  |  |  | 8.60                                     |  | 0.00        |  | 8.60  |                              | 33.10    |  | 8.60     |  | 41.29                             |  | 0.00       |  | 0.00              |              | 0.00     |  | Exhaust    |  | 0       |  | 0       |  |
| Misc                            |  |  |  |  | 21.21                                    |  | 0.55        |  | 21.76 |                              | 83.76    |  | 16.53    |  | 79.36                             |  | 0.00       |  | 0.00              |              | 0.00     |  | Auxiliary  |  | 0       |  | 0       |  |
| Sub Total ==>                   |  |  |  |  |  |  |             |  |       |                              |          |  |          |  |                                   |  |            |  |                   |              |          |  |            |  |         |  |         |  |
| Ceiling Load                    |  |  |  |  | 0.12                                     |  | -0.12       |  | 0.00  |                              | 0.00     |  | 0.12     |  | 0.58                              |  | -0.05      |  | 0                 |              | 0.00     |  |            |  |         |  |         |  |
| Ventilation Load                |  |  |  |  | 0.00                                     |  | 0.00        |  | 0.00  |                              | 0.00     |  | 0.00     |  | 0.00                              |  | 0.00       |  | 0.00              |              | 0.00     |  |            |  |         |  |         |  |
| Adj Air Trans Heat              |  |  |  |  | 0  |  | 0.00        |  | 0     |                              | 0        |  | 0        |  | 0                                 |  | 0.00       |  | 0                 |              | 0.00     |  | % OA       |  | Cooling |  | Heating |  |
| Dehumid. Ov Sizing              |  |  |  |  |  |  |             |  | 0     |                              | 0        |  |          |  |                                   |  |            |  | Ov/Undr Sizing    |              | 0.00     |  |            |  | 0.0     |  | 0.0     |  |
| Ov/Undr Sizing                  |  |  |  |  | 0.00                                     |  | 0.00        |  | 0.00  |                              | 0.00     |  | 0.00     |  | 0.00                              |  | 0.00       |  | 0.00              |              | 0.00     |  |            |  |         |  |         |  |
| Exhaust Heat                    |  |  |  |  | 0.00                                     |  | 0.00        |  | 0.00  |                              | 0.00     |  |          |  |                                   |  |            |  | Exhaust Heat      |              | 0.00     |  |            |  | 6.04    |  | 6.04    |  |
| Sup. Fan Heat                   |  |  |  |  | 0.00                                     |  | 0.00        |  | 0.00  |                              | 0.00     |  |          |  |                                   |  |            |  | OA Preheat Diff.  |              | 0.00     |  |            |  | 75.37   |  |         |  |
| Ret. Fan Heat                   |  |  |  |  | 0.00                                     |  | 0.00        |  | 0.00  |                              | 0.00     |  |          |  |                                   |  |            |  | RA Preheat Diff.  |              | 0.00     |  |            |  |         |  |         |  |
| Duct Heat PkUp                  |  |  |  |  | 0.00                                     |  | 0.00        |  | 0.00  |                              | 0.00     |  |          |  |                                   |  |            |  | Additional Reheat |              | 0.00     |  |            |  | 12.47   |  | -10.31  |  |
| Reheat at Design                |  |  |  |  | 0.00                                     |  | 0.00        |  | 0.00  |                              | 0.00     |  |          |  |                                   |  |            |  |                   |              |          |  |            |  | 80.13   |  |         |  |
| Grand Total ==>                 |  |  |  |  | 25.51                                    |  | 0.47        |  | 25.98 |                              | 100.00   |  | 20.83    |  | 100.00                            |  | -3.16      |  | -3.34             |              | 100.00   |  | No. People |  | 72      |  |         |  |

| COOLING COIL SELECTION |           |              |         | AREAS       |       |       |          | HEATING COIL SELECTION |              |      |      |
|------------------------|-----------|--------------|---------|-------------|-------|-------|----------|------------------------|--------------|------|------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter   | Gross Total | Glass | Leave | DB/WB/HR | Capacity               | Coil Airflow | Ent  | Lvg  |
| kW                     | kW        | L/s          | °C      | m²          | (%)   | °C    | g/kg     | kW                     | L/s          | °C   | °C   |
| Main Clg               | 25.98     | 21.30        | 1,958.5 | 324         | Floor | 14.7  | 13.2     | -3.3                   | 1,958.5      | 21.9 | 23.4 |
| Aux Clg                | 0.00      | 0.00         | 0.0     | 587         | Part  | 0.0   | 0.0      | 0.0                    | 0.0          | 0    | 0    |
| Opt Vent               | 0.00      | 0.00         | 0.0     | 54          | ExFlr | 0.0   | 0.0      | 0.0                    | 0.0          | 0    | 0    |
| Total                  | 25.98     |              |         | 101         | Roof  | 0     | 0        | 0.0                    | 0.0          | 0    | 0    |
|                        |           |              |         | 30          | Wall  | 30    | 30       | 0.0                    | 0            | 0.0  | 0.0  |
|                        |           |              |         |             |       |       |          | 0.0                    | 0            | 0.0  | 0.0  |
|                        |           |              |         |             |       |       |          | -3.3                   |              |      |      |



## System Checksums

By GOC SA

## FC0209-AUXILIAR HD Y BQ

## Fan Coil

| COOLING COIL PEAK                                    |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK            |  |  |  |  |  |  |  |  |  | HEATING COIL PEAK              |  |  |  |  |  |  |  |  |  | TEMPERATURES                                    |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|--|--|--|--|--|--------------------------------|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|----------------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time: Outside Air: OADB/WB/HR: 30 / 17 / 8 |  |  |  |  |  |  |  |  |  | Mo/Hr: Sum of OADB: Peaks |  |  |  |  |  |  |  |  |  | Mo/Hr: Heating Design OADB: -5 |  |  |  |  |  |  |  |  |  | SADB Cooling Heating 23.9 21.8 21.8 0.0 0.0 0.0 |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |
| Sens. + Lat. kW                                      |  |  |  |  |  |  |  |  |  | Space Sensible kW         |  |  |  |  |  |  |  |  |  | Space Peak Space Sens kW       |  |  |  |  |  |  |  |  |  | Coil Peak Tot Sens kW                           |  |  |  |  |  |  |  |  |  | Percent Of Total (%) |  |  |  |  |  |  |  |  |  |
| Envelope Loads                                       |  |  |  |  |  |  |  |  |  | Envelope Loads            |  |  |  |  |  |  |  |  |  | Envelope Loads                 |  |  |  |  |  |  |  |  |  | Envelope Loads                                  |  |  |  |  |  |  |  |  |  | Envelope Loads       |  |  |  |  |  |  |  |  |  |
| Skylite Solar  |  |  |  |  |  |  |  |  |  | Skylite Solar             |  |  |  |  |  |  |  |  |  | Skylite Solar                  |  |  |  |  |  |  |  |  |  | Skylite Solar                                   |  |  |  |  |  |  |  |  |  | Skylite Solar        |  |  |  |  |  |  |  |  |  |
| Skylite Cond   |  |  |  |  |  |  |  |  |  | Skylite Cond              |  |  |  |  |  |  |  |  |  | Skylite Cond                   |  |  |  |  |  |  |  |  |  | Skylite Cond                                    |  |  |  |  |  |  |  |  |  | Skylite Cond         |  |  |  |  |  |  |  |  |  |
| Roof Cond  |  |  |  |  |  |  |  |  |  | Roof Cond                 |  |  |  |  |  |  |  |  |  | Roof Cond                      |  |  |  |  |  |  |  |  |  | Roof Cond                                       |  |  |  |  |  |  |  |  |  | Roof Cond            |  |  |  |  |  |  |  |  |  |
| Glass Solar  |  |  |  |  |  |  |  |  |  | Glass Solar               |  |  |  |  |  |  |  |  |  | Glass Solar                    |  |  |  |  |  |  |  |  |  | Glass Solar                                     |  |  |  |  |  |  |  |  |  | Glass Solar          |  |  |  |  |  |  |  |  |  |
| Glass Cond   |  |  |  |  |  |  |  |  |  | Glass Cond                |  |  |  |  |  |  |  |  |  | Glass Cond                     |  |  |  |  |  |  |  |  |  | Glass Cond                                      |  |  |  |  |  |  |  |  |  | Glass Cond           |  |  |  |  |  |  |  |  |  |
| Wall Cond  |  |  |  |  |  |  |  |  |  | Wall Cond                 |  |  |  |  |  |  |  |  |  | Wall Cond                      |  |  |  |  |  |  |  |  |  | Wall Cond                                       |  |  |  |  |  |  |  |  |  | Wall Cond            |  |  |  |  |  |  |  |  |  |
| Partition  |  |  |  |  |  |  |  |  |  | Partition                 |  |  |  |  |  |  |  |  |  | Partition                      |  |  |  |  |  |  |  |  |  | Partition                                       |  |  |  |  |  |  |  |  |  | Partition            |  |  |  |  |  |  |  |  |  |
| Exposed Floor  |  |  |  |  |  |  |  |  |  | Exposed Floor             |  |  |  |  |  |  |  |  |  | Exposed Floor                  |  |  |  |  |  |  |  |  |  | Exposed Floor                                   |  |  |  |  |  |  |  |  |  | Exposed Floor        |  |  |  |  |  |  |  |  |  |
| Infiltration   |  |  |  |  |  |  |  |  |  | Infiltration              |  |  |  |  |  |  |  |  |  | Infiltration                   |  |  |  |  |  |  |  |  |  | Infiltration                                    |  |  |  |  |  |  |  |  |  | Infiltration         |  |  |  |  |  |  |  |  |  |
| Sub Total ==>  |  |  |  |  |  |  |  |  |  | Sub Total ==>             |  |  |  |  |  |  |  |  |  | Sub Total ==>                  |  |  |  |  |  |  |  |  |  | Sub Total ==>                                   |  |  |  |  |  |  |  |  |  | Sub Total ==>        |  |  |  |  |  |  |  |  |  |
| Internal Loads                                       |  |  |  |  |  |  |  |  |  | Internal Loads            |  |  |  |  |  |  |  |  |  | Internal Loads                 |  |  |  |  |  |  |  |  |  | Internal Loads                                  |  |  |  |  |  |  |  |  |  | Internal Loads       |  |  |  |  |  |  |  |  |  |
| Lights   |  |  |  |  |  |  |  |  |  | Lights                    |  |  |  |  |  |  |  |  |  | Lights                         |  |  |  |  |  |  |  |  |  | Lights  |  |  |  |  |  |  |  |  |  | Lights               |  |  |  |  |  |  |  |  |  |
| People   |  |  |  |  |  |  |  |  |  | People                    |  |  |  |  |  |  |  |  |  | People                         |  |  |  |  |  |  |  |  |  | People  |  |  |  |  |  |  |  |  |  | People               |  |  |  |  |  |  |  |  |  |
| Misc   |  |  |  |  |  |  |  |  |  | Misc                      |  |  |  |  |  |  |  |  |  | Misc                           |  |  |  |  |  |  |  |  |  | Misc  |  |  |  |  |  |  |  |  |  | Misc                 |  |  |  |  |  |  |  |  |  |
| Sub Total ==>  |  |  |  |  |  |  |  |  |  | Sub Total ==>             |  |  |  |  |  |  |  |  |  | Sub Total ==>                  |  |  |  |  |  |  |  |  |  | Sub Total ==>                                   |  |  |  |  |  |  |  |  |  | Sub Total ==>        |  |  |  |  |  |  |  |  |  |
| Ceiling Load   |  |  |  |  |  |  |  |  |  | Ceiling Load              |  |  |  |  |  |  |  |  |  | Ceiling Load                   |  |  |  |  |  |  |  |  |  | Ceiling Load                                    |  |  |  |  |  |  |  |  |  | Ceiling Load         |  |  |  |  |  |  |  |  |  |
| Ventilation Load                                     |  |  |  |  |  |  |  |  |  | Ventilation Load          |  |  |  |  |  |  |  |  |  | Ventilation Load               |  |  |  |  |  |  |  |  |  | Ventilation Load                                |  |  |  |  |  |  |  |  |  | Ventilation Load     |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat                                   |  |  |  |  |  |  |  |  |  | Adj Air Trans Heat        |  |  |  |  |  |  |  |  |  | Adj Air Trans Heat             |  |  |  |  |  |  |  |  |  | Adj Air Trans Heat                              |  |  |  |  |  |  |  |  |  | Adj Air Trans Heat   |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing                                   |  |  |  |  |  |  |  |  |  | Dehumid. Ov Sizing        |  |  |  |  |  |  |  |  |  | Dehumid. Ov Sizing             |  |  |  |  |  |  |  |  |  | Dehumid. Ov Sizing                              |  |  |  |  |  |  |  |  |  | Dehumid. Ov Sizing   |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing                                       |  |  |  |  |  |  |  |  |  | Ov/Undr Sizing            |  |  |  |  |  |  |  |  |  | Ov/Undr Sizing                 |  |  |  |  |  |  |  |  |  | Ov/Undr Sizing                                  |  |  |  |  |  |  |  |  |  | Ov/Undr Sizing       |  |  |  |  |  |  |  |  |  |
| Exhaust Heat   |  |  |  |  |  |  |  |  |  | Exhaust Heat              |  |  |  |  |  |  |  |  |  | Exhaust Heat                   |  |  |  |  |  |  |  |  |  | Exhaust Heat                                    |  |  |  |  |  |  |  |  |  | Exhaust Heat         |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat  |  |  |  |  |  |  |  |  |  | Sup. Fan Heat             |  |  |  |  |  |  |  |  |  | Sup. Fan Heat                  |  |  |  |  |  |  |  |  |  | Sup. Fan Heat                                   |  |  |  |  |  |  |  |  |  | Sup. Fan Heat        |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat  |  |  |  |  |  |  |  |  |  | Ret. Fan Heat             |  |  |  |  |  |  |  |  |  | Ret. Fan Heat                  |  |  |  |  |  |  |  |  |  | Ret. Fan Heat                                   |  |  |  |  |  |  |  |  |  | Ret. Fan Heat        |  |  |  |  |  |  |  |  |  |
| Duct Heat PkUp                                       |  |  |  |  |  |  |  |  |  | Duct Heat PkUp            |  |  |  |  |  |  |  |  |  | Duct Heat PkUp                 |  |  |  |  |  |  |  |  |  | Duct Heat PkUp                                  |  |  |  |  |  |  |  |  |  | Duct Heat PkUp       |  |  |  |  |  |  |  |  |  |
| Reheat at Design                                     |  |  |  |  |  |  |  |  |  | Reheat at Design          |  |  |  |  |  |  |  |  |  | Reheat at Design               |  |  |  |  |  |  |  |  |  | Reheat at Design                                |  |  |  |  |  |  |  |  |  | Reheat at Design     |  |  |  |  |  |  |  |  |  |
| Grand Total ==>                                      |  |  |  |  |  |  |  |  |  | Grand Total ==>           |  |  |  |  |  |  |  |  |  | Grand Total ==>                |  |  |  |  |  |  |  |  |  | Grand Total ==>                                 |  |  |  |  |  |  |  |  |  | Grand Total ==>      |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |           |  |              |  |       |  |       |  | AREAS       |  |       |  |  |  |  |  |  |  |
|------------------------|--|-----------|--|--------------|--|-------|--|-------|--|-------------|--|-------|--|--|--|--|--|--|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter |  | Leave |  | Gross Total |  | Glass |  |  |  |  |  |  |  |
| kW                     |  | kW        |  | L/s          |  | °C    |  | °C    |  | m²          |  | %     |  |  |  |  |  |  |  |
| Main Clg               |  | 33.36     |  | 2,746.8      |  | 24.4  |  | 13.0  |  | 785         |  | Floor |  |  |  |  |  |  |  |
| Aux Clg                |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 2,099       |  | Part  |  |  |  |  |  |  |  |
| Opt Vent               |  | 0.00      |  | 0.0          |  | 0.0   |  | 0.0   |  | 0           |  | ExFlr |  |  |  |  |  |  |  |
| Total/                 |  | 42.71     |  | 0.0          |  | 0.0   |  | 0.0   |  | 51          |  | Roof  |  |  |  |  |  |  |  |
|                        |  |           |  |              |  |       |  |       |  | 330         |  | Wall  |  |  |  |  |  |  |  |
|                        |  |           |  |              |  |       |  |       |  | 61          |  | 19    |  |  |  |  |  |  |  |

| HEATING COIL SELECTION |              |      |      |
|------------------------|--------------|------|------|
| Capacity               | Coil Airflow | Ent  | Lvs  |
| kW                     | L/s          | °C   | °C   |
| -6.7                   | 2,746.8      | 21.8 | 23.9 |
| 0.0                    | 0            | 0    | 0    |
| 0.0                    | 0            | 0    | 0    |
| 0.0                    | 0            | 0    | 0    |
| 0.0                    | 0            | 0    | 0    |
| 0                      |              |      |      |
| 0.0                    | 0            | 0    | 0    |
| 0.0                    | 0            | 0    | 0    |
| -6.7                   |              |      |      |



System Checksums

By GOCSA

UTA 06-Urgencias PL01-serv-afectad

Single Zone

| COOLING COIL PEAK               |    |          |    |            |   |          |    |            |     | CLG SPACE PEAK               |    |            |    |            |                                   |            |     |            |     | HEATING COIL PEAK |  |                     |  |                     |         |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|---------------------------------|----|----------|----|------------|---|----------|----|------------|-----|------------------------------|----|------------|----|------------|-----------------------------------|------------|-----|------------|-----|-------------------|--|---------------------|--|---------------------|---------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |    |          |    |            | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |          |    |            |     | Mo/Hr: Sum of<br>OADB: Peaks |    |            |    |            | Mo/Hr: Heating Design<br>OADB: -5 |            |     |            |     |                   |  |                     |  |                     | Cooling |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.                    |    | Space    |    | Plenum     |   | Net      |    | Percent    |     | Space                        |    | Percent    |    | Space Peak |                                   | Coil Peak  |     | Percent    |     | SADB              |  | Cooling             |  | Heating             |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| kW                              | kW | kW       | kW | kW         | kW  | kW       | kW | kW         | (%) | kW                           | kW | (%)        | kW | kW         | kW                                | kW         | (%) | kW         | (%) |                   |  |                     |  |                     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Envelope Loads                  |    |          |    |            |   |          |    |            |     |                              |    |            |    |            |                                   |            |     |            |     |                   |  |                     |  |                     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Solar                   |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     | Plenum            |  | 24.0                |  | 24.0                |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Cond                    |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     | Return            |  | 24.9                |  | 22.0                |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Roof Cond                       |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     | Ret/OA            |  | 36.5                |  | -4.9                |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Solar                     |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     | Fn MtrTD          |  | 0.1                 |  | 0.0                 |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Cond                      |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     | Fn BldTD          |  | 0.3                 |  | 0.0                 |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Wall Cond                       |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     | Fn Frict          |  | 0.9                 |  | 0.0                 |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Partition                       |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  |                     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exposed Floor                   |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  |                     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Infiltration                    |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  |                     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  |                     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Internal Loads                  |    |          |    |            |   |          |    |            |     |                              |    |            |    |            |                                   |            |     |            |     |                   |  |                     |  |                     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Lights                          |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  | 2,222               |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| People                          |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  | 2,222               |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Misc                            |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  | 2,222               |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  | 2,222               |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ceiling Load                    |    |          |    |            |   |          |    |            |     |                              |    |            |    |            |                                   |            |     |            |     |                   |  |                     |  |                     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ventilation Load                |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  | 2,222               |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat              |    | 0        |    | 0.00       |   | 33.51    |    | 73.09      |     | 0                            |    | 0          |    | 0          |                                   | -68.44     |     | 0          |     |                   |  |                     |  | 0                   |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing              |    | 0.00     |    | 0.00       |   | 9        |    | 20         |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  | 100.0               |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| OvUndr Sizing                   |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  | 239.18              |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exhaust Heat                    |    | -2.30    |    | -2.30      |   | -2.30    |    | -5.02      |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  | 48.45               |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat                   |    | 3.28     |    | 3.28       |   | 3.28     |    | 7.15       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  | 239.18              |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat                   |    | 2.30     |    | 2.30       |   | 2.30     |    | 5.02       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  | 48.45               |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup                  |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | 0.00       |     | 0.00       |     |                   |  |                     |  | 0.20                |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Reheat at Design                |    | 0.00     |    | 0.00       |   | 0.00     |    | 0.00       |     | 0.00                         |    | 0.00       |    | 0.00       |                                   | -12.28     |     | 15.21      |     |                   |  |                     |  | 4,933.39 -13,373.38 |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Grand Total ==>                 |    | 0.00     |    | 0.00       |   | 45.85    |    | 100.00     |     | 0.00                         |    | 100.00     |    | 0.00       |                                   | -80.72     |     | 100.00     |     | No. People        |  | 0                   |  |                     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| AIR FLOWS                       |    |          |    |            |   |          |    |            |     |                              |    |            |    |            |                                   |            |     |            |     |                   |  |                     |  |                     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Vent                            |    | 2,222    |    | 2,222      |   | 2,222    |    | 2,222      |     | 2,222                        |    | 2,222      |    | 2,222      |                                   | 2,222      |     | 2,222      |     | Cooling           |  | 2,222               |  | Heating             |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Infil                           |    | 0        |    | 0          |   | 0        |    | 0          |     | 0                            |    | 0          |    | 0          |                                   | 0          |     | 0          |     | Supply            |  | 0                   |  | 2,222               |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| MinStop/Rh                      |    | 2,222    |    | 2,222      |   | 2,222    |    | 2,222      |     | 2,222                        |    | 2,222      |    | 2,222      |                                   | 2,222      |     | 2,222      |     | Return            |  | 2,222               |  | 2,222               |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exhaust                         |    | 2,222    |    | 2,222      |   | 2,222    |    | 2,222      |     | 2,222                        |    | 2,222      |    | 2,222      |                                   | 2,222      |     | 2,222      |     | Exhaust           |  | 2,222               |  | 2,222               |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Rm Exh                          |    | 0        |    | 0          |   | 0        |    | 0          |     | 0                            |    | 0          |    | 0          |                                   | 0          |     | 0          |     | Rm Exh            |  | 0                   |  | 0                   |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Auxiliary                       |    | 0        |    | 0          |   | 0        |    | 0          |     | 0                            |    | 0          |    | 0          |                                   | 0          |     | 0          |     | Auxiliary         |  | 0                   |  | 0                   |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| ENGINEERING CKS                 |    |          |    |            |   |          |    |            |     |                              |    |            |    |            |                                   |            |     |            |     |                   |  |                     |  |                     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| % OA                            |    | 100.0    |    | 100.0      |   | 100.0    |    | 100.0      |     | 100.0                        |    | 100.0      |    | 100.0      |                                   | 100.0      |     | 100.0      |     | Cooling           |  | 100.0               |  | Heating             |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Lps/m²                          |    | 239.18   |    | 239.18     |   | 239.18   |    | 239.18     |     | 239.18                       |    | 239.18     |    | 239.18     |                                   | 239.18     |     | 239.18     |     | Lps/m²            |  | 239.18              |  | 239.18              |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Lps/kW                          |    | 48.45    |    | 48.45      |   | 48.45    |    | 48.45      |     | 48.45                        |    | 48.45      |    | 48.45      |                                   | 48.45      |     | 48.45      |     | Lps/kW            |  | 48.45               |  | 48.45               |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| m²/kW                           |    | 0.20     |    | 0.20       |   | 0.20     |    | 0.20       |     | 0.20                         |    | 0.20       |    | 0.20       |                                   | 0.20       |     | 0.20       |     | m²/kW             |  | 0.20                |  | 0.20                |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| W/m²                            |    | 4,933.39 |    | -13,373.38 |   | 4,933.39 |    | -13,373.38 |     | 4,933.39                     |    | -13,373.38 |    | 4,933.39   |                                   | -13,373.38 |     | -13,373.38 |     | W/m²              |  | 4,933.39 -13,373.38 |  | 4,933.39 -13,373.38 |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| No. People                      |    | 0        |    | 0          |   | 0        |    | 0          |     | 0                            |    | 0          |    | 0          |                                   | 0          |     | 0          |     | No. People        |  | 0                   |  | 0                   |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| HEATING COIL SELECTION          |    |          |    |            |   |          |    |            |     |                              |    |            |    |            |                                   |            |     |            |     |                   |  |                     |  |                     |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Capacity                        |    | -7.2     |    | -7.2       |   | -7.2     |    | -7.2       |     | -7.2                         |    | -7.2       |    | -7.2       |                                   | -7.2       |     | -7.2       |     | Capacity          |  | -7.2                |  | -7.2                |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Main Htg                        |    | 24.0     |    | 24.0       |   | 24.0     |    | 24.0       |     | 24.0                         |    | 24.0       |    | 24.0       |                                   | 24.0       |     | 24.0       |     | Main Htg          |  | 24.0                |  | 24.0                |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Aux Htg                         |    | 0.0      |    | 0.0        |   | 0.0      |    | 0.0        |     | 0.0                          |    | 0.0        |    | 0.0        |                                   | 0.0        |     | 0.0        |     | Aux Htg           |  | 0.0                 |  | 0.0                 |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Preheat                         |    | -70.2    |    | -70.2      |   | -70.2    |    | -70.2      |     | -70.2                        |    | -70.2      |    | -70.2      |                                   | -70.2      |     | -70.2      |     | Preheat           |  | -70.2               |  | -5                  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Reheat                          |    | -12.3    |    | -12.3      |   | -12.3    |    | -12.3      |     | -12.3                        |    | -12.3      |    | -12.3      |                                   | -12.3      |     | -12.3      |     | Reheat            |  | -12.3               |  | 24.0                |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Humidif                         |    | -46.9    |    | -46.9      |   | -46.9    |    | -46.9      |     | -46.9                        |    | -46.9      |    | -46.9      |                                   | -46.9      |     | -46.9      |     | Humidif           |  | -46.9               |  | 8.1                 |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |    | 0.0      |    | 0.0        |   | 0.0      |    | 0.0        |     | 0.0                          |    | 0.0        |    | 0.0        |                                   | 0.0        |     | 0.0        |     | Opt Vent          |  | 0.0                 |  | 0.0                 |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Total                           |    | -124.3   |    | -124.3     |   | -124.3   |    | -124.3     |     | -124.3                       |    | -124.3     |    | -124.3     |                                   | -124.3     |     | -124.3     |     | Total             |  | -124.3              |  | 0.0                 |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |



System Checksums

By GOCSA

UTA 09 Cafeteria -serv-afectado

Single Zone

| COOLING COIL PEAK               |              |              |       | CLG SPACE PEAK                            |       |          |                 | HEATING COIL PEAK                 |              |        |            | TEMPERATURES |         |         |  |
|---------------------------------|--------------|--------------|-------|---|-------|----------|-----------------|-----------------------------------|--------------|--------|------------|--------------|---------|---------|--|
| Peaked at Time:<br>Outside Air: |              |              |       | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |       |          |                 | Mo/Hr: Heating Design<br>OADB: -5 |              |        |            |              |         |         |  |
| Total Capacity                  | Sens Cap.    | Coil Airflow | Enter | DB/WB/HR                                  | Leave | DB/WB/HR | Enter           | Sens Cap.                         | Coil Airflow | Enter  | DB/WB/HR   | SADB         | Cooling | Heating |  |
| kW                              | kW           | L/s          | °C    | °C  | °C    | °C       | °C              | kW                                | L/s          | °C     | °C         | Plenum       | 24.2    | 22.0    |  |
| Sens. + Lat.                    | Sens. + Lat. |              |       |   |       |          |                 | Space                             |              |        |            | Return       | 25.1    | 22.0    |  |
| kW                              | kW           |              |       |   |       |          |                 | Sens.                             |              |        |            | Ret/OA       | 28.4    | 14.4    |  |
|                                 |              |              |       |   |       |          |                 | Total                             |              |        |            | Fn MtrTD     | 0.1     | 0.0     |  |
|                                 |              |              |       |   |       |          |                 | Net                               |              |        |            | Fn BldTD     | 0.3     | 0.0     |  |
|                                 |              |              |       |   |       |          |                 | Of Total                          |              |        |            | Fn Frict     | 0.9     | 0.0     |  |
|                                 |              |              |       |   |       |          |                 | (%)                               |              |        |            |              |         |         |  |
| Envelope Loads                  |              |              |       | Envelope Loads                            |       |          |                 |                                   |              |        |            |              |         |         |  |
| Skyllite Solar                  | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Skyllite Cond                   | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Roof Cond                       | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Glass Solar                     | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Glass Cond                      | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Wall Cond                       | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Partition                       | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Exposed Floor                   | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Infiltration                    | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Sub Total ==>                   | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Internal Loads                  |              |              |       | Internal Loads                            |       |          |                 |                                   |              |        |            |              |         |         |  |
| Lights                          | 2.82         | 0.70         | 0.00  | 12.26                                     | 0.00  | 0.00     | 0.00            | 2.82                              | 23.29        | 0.00   | 0.00       |              |         |         |  |
| People                          | 6.59         | 0.00         | 0.00  | 22.95                                     | 0.00  | 0.00     | 0.00            | 3.66                              | 30.22        | 0.00   | 0.00       |              |         |         |  |
| Misc                            | 5.50         | 0.00         | 0.00  | 19.16                                     | 0.00  | 0.00     | 0.00            | 5.50                              | 45.42        | 0.00   | 0.00       |              |         |         |  |
| Sub Total ==>                   | 14.91        | 0.70         | 0.00  | 54.37                                     | 0.00  | 0.00     | 0.00            | 11.98                             | 98.93        | 0.00   | 0.00       |              |         |         |  |
| Ceiling Load                    |              |              |       | Ceiling Load                              |       |          |                 |                                   |              |        |            |              |         |         |  |
| Ventilation Load                | 0.13         | -0.13        | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.13                              | 1.07         | 0.00   | 0.00       |              |         |         |  |
| Adj Air Trans Heat              | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Dehumid. Ov Sizing              | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Exhaust Heat                    | -0.81        | -0.81        | -2.82 | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Sup. Fan Heat                   | 3.25         | 2.28         | 7.94  | 11.32                                     | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Ret. Fan Heat                   | 2.28         | 2.28         | 7.94  | 11.32                                     | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Duct Heat Pkup                  | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Reheat at Design                | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | 0.00                              | 0.00         | 0.00   | 0.00       |              |         |         |  |
| Grand Total ==>                 | 15.04        | 2.04         | 28.71 | 100.00                                    | 12.11 | 100.00   | Grand Total ==> | 0.00                              | -19.25       | 100.00 | No. People |              |         |         |  |

| COOLING COIL SELECTION |       |           |              |                |      |                |      |             |                | AREAS |       |          | HEATING COIL SELECTION |      |      |  |  |
|------------------------|-------|-----------|--------------|----------------|------|----------------|------|-------------|----------------|-------|-------|----------|------------------------|------|------|--|--|
| Total Capacity         |       | Sens Cap. | Coil Airflow | Enter DB/WB/HR |      | Leave DB/WB/HR |      | Gross Total | Glass          |       |       | Capacity | Coil Airflow           | Ent  | Lvg  |  |  |
| kW                     | kW    | kW        | L/s          | °C             | °C   | °C             | °C   |             | m <sup>2</sup> | (%)   |       | kW       | L/s                    | °C   | °C   |  |  |
| Main Clg               | 28.70 | 26.34     | 2,200.3      | 28.4           | 19.4 | 11.7           | 17.9 | 320         |                |       | Floor | -19.3    | 2,200.3                | 14.4 | 22.0 |  |  |
| Aux Clg                | 0.00  | 0.00      | 0.0          | 0.0            | 0.0  | 0.0            | 0.0  | 0           |                |       | Part  | 0.0      | 0                      | 0    | 0    |  |  |
| Opt Vent               | 0.00  | 0.00      | 0.0          | 0.0            | 0.0  | 0.0            | 0.0  | 0           |                |       | ExFlr | -8.9     | 2,200                  | 14   | 18   |  |  |
| Total                  | 28.70 |           |              |                |      |                |      | 0           | 0              | 0     | Roof  |          |                        |      |      |  |  |
|                        |       |           |              |                |      |                |      | 0           | 0              | 0     | Wall  |          |                        |      |      |  |  |
|                        |       |           |              |                |      |                |      |             |                |       |       | 0.0      | 0                      | 0.0  | 0.0  |  |  |
|                        |       |           |              |                |      |                |      |             |                |       |       | 0.0      | 0                      | 0.0  | 0.0  |  |  |
|                        |       |           |              |                |      |                |      |             |                |       |       | -19.3    |                        |      |      |  |  |



System Checksums

By GOCSA

UTA 19 Planta 00-serv-afectado

Single Zone

| COOLING COIL PEAK               |              |              |       | CLG SPACE PEAK                            |       |          |                 | HEATING COIL PEAK                 |              |        |          | TEMPERATURES    |         |         |   |
|---------------------------------|--------------|--------------|-------|---|-------|----------|-----------------|-----------------------------------|--------------|--------|----------|-----------------|---------|---------|---|
| Peaked at Time:<br>Outside Air: |              |              |       | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |       |          |                 | Mo/Hr: Heating Design<br>OADB: -5 |              |        |          |                 |         |         |   |
| Total Capacity                  | Sens Cap.    | Coil Airflow | Enter | DB/WB/HR                                  | Leave | DB/WB/HR | Enter           | Sens Cap.                         | Coil Airflow | Enter  | DB/WB/HR | SADB            | Cooling | Heating |   |
| kW                              | kW           | L/s          | °C    | °C  | °C    | °C       | °C              | kW                                | L/s          | °C     | °C       | Plenum          | 24.4    | 21.9    |   |
| Sens. + Lat.                    | Sens. + Lat. |              |       |   |       |          |                 | Space                             |              |        |          | Return          | 25.3    | 21.9    |   |
| kW                              | kW           |              |       |   |       |          |                 | Sens. + Lat.                      |              |        |          | Ret/OA          | 28.3    | 14.7    |   |
|                                 |              |              |       |   |       |          |                 |                                   |              |        |          | Fn MtrTD        | 0.1     | 0.0     |   |
|                                 |              |              |       |   |       |          |                 |                                   |              |        |          | Fn BldTD        | 0.3     | 0.0     |   |
|                                 |              |              |       |   |       |          |                 |                                   |              |        |          | Fn Frict        | 0.9     | 0.0     |   |
| Envelope Loads                  |              |              |       | Envelope Loads                            |       |          |                 |                                   |              |        |          |                 |         |         |   |
| Skyllite Solar                  | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | Skyllite Solar                    | 0.00         | 0.00   | 0.00     | Vent            | 750     | 750     | 0 |
| Skyllite Cond                   | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | Skyllite Cond                     | 0.00         | 0.00   | 0.00     | Infil           | 2,800   | 2,800   | 0 |
| Roof Cond                       | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | Roof Cond                         | 0.00         | 0.00   | 0.00     | MinStop/Rh      | 2,800   | 2,800   | 0 |
| Glass Solar                     | 1.20         | 1.20         | 2.52  | 1.20                                      | 5.42  | 1.20     | 5.42            | Glass Solar                       | 0.00         | 0.00   | 0.00     | Exhaust         | 750     | 750     | 0 |
| Glass Cond                      | 0.27         | 0.00         | 0.57  | 0.27                                      | 1.22  | 0.27     | 1.22            | Glass Cond                        | -0.89        | -0.89  | -0.89    | Rm Exh          | 0       | 0       | 0 |
| Wall Cond                       | 0.18         | 0.00         | 0.44  | 0.29                                      | 1.31  | 0.29     | 1.31            | Wall Cond                         | -2.20        | -2.66  | -2.66    | Auxiliary       | 0       | 0       | 0 |
| Partition                       | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | Partition                         | 0.00         | 0.00   | 0.00     | AIRFLOWS        |         |         |   |
| Exposed Floor                   | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | Exposed Floor                     | 0.00         | 0.00   | 0.00     | Cooling         | 750     | 750     | 0 |
| Infiltration                    | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | Infiltration                      | 0.00         | 0.00   | 0.00     | Heating         | 0       | 0       | 0 |
| Sub Total ==>                   | 1.65         | 0.03         | 1.68  | 3.53                                      | 7.95  | 1.76     | 7.95            | Sub Total ==>                     | -3.09        | -3.55  | -3.55    | Supply          | 2,800   | 2,800   | 0 |
| Internal Loads                  |              |              |       | Internal Loads                            |       |          |                 |                                   |              |        |          |                 |         |         |   |
| Lights                          | 6.60         | 1.65         | 8.25  | 17.32                                     | 29.80 | 6.60     | 29.80           | Lights                            | 0.00         | 0.00   | 0.00     | Return          | 2,800   | 2,800   | 0 |
| People                          | 7.91         | 0.00         | 7.91  | 16.60                                     | 19.82 | 4.39     | 19.82           | People                            | 0.00         | 0.00   | 0.00     | Exhaust         | 750     | 750     | 0 |
| Misc                            | 8.90         | 0.00         | 8.90  | 18.68                                     | 40.18 | 8.90     | 40.18           | Misc                              | 0.00         | 0.00   | 0.00     | Rm Exh          | 0       | 0       | 0 |
| Sub Total ==>                   | 23.41        | 1.65         | 25.06 | 52.60                                     | 89.80 | 19.89    | 89.80           | Sub Total ==>                     | 0.00         | 0.00   | 0.00     | Auxiliary       | 0       | 0       | 0 |
| Ceiling Load                    | 0.50         | -0.50        | 0.00  | 0.00                                      | 2.26  | 0.50     | 2.26            | Ceiling Load                      | -0.13        | 0      | 0        | ENGINEERING CKS |         |         |   |
| Ventilation Load                | 0.00         | 0.00         | 14.95 | 31.38                                     | 0.00  | 0.00     | 0.00            | Ventilation Load                  | 0.00         | -23.10 | 86.97    | % OA            | 26.8    | 26.8    | 0 |
| Adj Air Trans Heat              | 0            | 0            | 0     | 0   | 0     | 0        | 0               | Adj Air Trans Heat                | 0            | 0      | 0        | Lps/m²          | 3.73    | 3.73    | 0 |
| Dehumid. Ov Sizing              | 0.00         | -1.09        | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | Ov/Undr Sizing                    | 0.00         | 0.00   | 0.00     | Lps/kW          | 58.78   | 58.78   | 0 |
| Exhaust Heat                    | -1.09        | -1.09        | -2.29 | -2.29                                     | 0.00  | 0.00     | 0.00            | Exhaust Heat                      | 0.00         | 0.00   | 0.00     | m²/kW           | 15.75   | 15.75   | 0 |
| Sup. Fan Heat                   | 2.90         | 2.90         | 4.14  | 8.69                                      | 0.00  | 0.00     | 0.00            | OA Preheat Diff.                  | 0.00         | 0.00   | 0.00     | W/m²            | 63.48   | -35.41  | 0 |
| Ret. Fan Heat                   | 0.00         | 0.00         | 6.09  | 6.09                                      | 0.00  | 0.00     | 0.00            | RA Preheat Diff.                  | 0.00         | 0.00   | 0.00     | No. People      | 60      | 60      | 0 |
| Duct Heat Pkup                  | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            | Additional Reheat                 | 0.00         | 0.00   | 0.00     |                 |         |         |   |
| Reheat at Design                | 0.00         | 0.00         | 0.00  | 0.00                                      | 0.00  | 0.00     | 0.00            |                                   |              |        |          |                 |         |         |   |
| Grand Total ==>                 | 25.56        | 2.99         | 47.64 | 100.00                                    | 22.15 | 100.00   | Grand Total ==> | -3.22                             | -26.56       | 100.00 |          |                 |         |         |   |

| COOLING COIL SELECTION |           |              |       | AREAS       |       |          |          | HEATING COIL SELECTION |      |      |  |
|------------------------|-----------|--------------|-------|-------------|-------|----------|----------|------------------------|------|------|--|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | Gross Total | Glass | Main Htg | Capacity | Coil Airflow           | Ent  | Lvg  |  |
| kW                     | kW        | L/s          | °C    | m²          | (%)   | °C       | kW       | L/s                    | °C   | °C   |  |
| Main Clg               | 47.63     | 39.89        | 28.3  | 750         | 0     | 15.8     | -26.6    | 2,800.4                | 14.7 | 23.0 |  |
| Aux Clg                | 0.00      | 0.00         | 0.0   | 0           | 0     | 0.0      | 0.0      | 0                      | 0    | 0    |  |
| Opt Vent               | 0.00      | 0.00         | 0.0   | 0           | 0     | 0.0      | -3.5     | 2,800                  | 15   | 16   |  |
| Total                  | 47.63     |              |       | 243         | 0     | 0        | 0.0      | 0                      | 0.0  | 0.0  |  |
|                        |           |              |       | 9           | 22    | 9        | 0.0      | 0                      | 0.0  | 0.0  |  |
|                        |           |              |       |             |       |          | -26.6    |                        |      |      |  |



## **1.2.- CÁLCULOS DE CARGAS TÉRMICAS LOCALES**



Room Checksums

By GOCSA

AP0001- CONSULTAS OFT

| COOLING COIL PEAK               |              |              |       | CLG SPACE PEAK            |          |          |          | HEATING COIL PEAK                 |           |          |     | TEMPERATURES |          |            |  |
|---------------------------------|--------------|--------------|-------|---------------------------|----------|----------|----------|-----------------------------------|-----------|----------|-----|--------------|----------|------------|--|
| Peaked at Time:<br>Outside Air: |              |              |       | Mo/Hr: 7 / 15<br>OADB: 36 |          |          |          | Mo/Hr: Heating Design<br>OADB: -5 |           |          |     |              |          |            |  |
| Sens. + Lat.                    | Space        | Plenum       | Net   | Space                     | Percent  | Percent  | Percent  | Space Peak                        | Coil Peak | Percent  |     | SADB         | Cooling  | Heating    |  |
| Sens. + Lat.                    | Sens. + Lat. | Sens. + Lat. | Total | Sensible                  | Of Total | Of Total | Of Total | Space Sens                        | Tot Sens  | Of Total | (%) | Plenum       | 24.0     | 24.0       |  |
| kW                              | kW           | kW           | kW    | kW                        | (%)      | (%)      | (%)      | kW                                | kW        | (%)      |     | Return       | 24.0     | 22.0       |  |
|                                 |              |              |       |                           |          |          |          |                                   |           |          |     | Ret/OA       | 36.5     | -4.9       |  |
| Envelope Loads                  |              |              |       | Envelope Loads            |          |          |          |                                   |           |          |     | Fn MtrTD     | 0.1      | 0.0        |  |
| Skylite Solar                   | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     | Fn BidTD     | 0.3      | 0.0        |  |
| Skylite Cond                    | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     | Fn Frict     | 0.9      | 0.0        |  |
| Roof Cond                       | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     |              |          |            |  |
| Glass Solar                     | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     |              |          |            |  |
| Glass Cond                      | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     |              |          |            |  |
| Wall Cond                       | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     |              |          |            |  |
| Partition                       | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     |              |          |            |  |
| Exposed Floor                   | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     |              |          |            |  |
| Infiltration                    | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     |              |          |            |  |
| Sub Total ==>                   | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     |              |          |            |  |
| Internal Loads                  |              |              |       | Internal Loads            |          |          |          |                                   |           |          |     |              |          |            |  |
| Lights                          | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     | Vent         | 1,950    | 1,950      |  |
| People                          | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     | Infil        | 1,950    | 0          |  |
| Misc                            | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     | Supply       | 1,950    | 1,950      |  |
| Sub Total ==>                   | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     | MinStop/Rh   | 1,950    | 1,950      |  |
|                                 |              |              |       |                           |          |          |          |                                   |           |          |     | Return       | 1,950    | 1,950      |  |
| Ceiling Load                    | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     | Exhaust      | 1,950    | 1,950      |  |
| Ventilation Load                | 0.00         | 0.00         | 29.41 | 0                         | 73       | 0        | 0        | 0.00                              | 0.00      | 0        |     | Rm Exh       | 0        | 0          |  |
| Adj Air Trans Heat              | 0            | 0.00         | 0     | 0                         | 0        | 20       | 0        | 0.00                              | 0         | 0        |     | Auxil        | 0        | 0          |  |
| Dehumid. Ov Sizing              | 0.00         | -2.02        | 8     | 0.00                      | 0        | 0        | 0        | 0.00                              | 0.00      | 0        |     |              |          |            |  |
| OvUndr Sizing                   |              |              |       |                           |          |          |          |                                   |           |          |     |              |          |            |  |
| Exhaust Heat                    |              |              |       |                           |          |          |          |                                   |           |          |     | % OA         | 100.0    | 100.0      |  |
| Sup. Fan Heat                   |              |              |       |                           |          |          |          |                                   |           |          |     | Lps/m²       | 209.90   | 209.90     |  |
| Ret. Fan Heat                   |              |              |       |                           |          |          |          |                                   |           |          |     | Lps/kW       | 48.44    |            |  |
| Duct Heat PkUp                  |              |              |       |                           |          |          |          |                                   |           |          |     | m²/kW        | 0.23     |            |  |
| Reheat at Design                |              |              |       |                           |          |          |          |                                   |           |          |     | W/m²         | 4,330.51 | -12,217.62 |  |
| Grand Total ==>                 | 0.00         | 0.00         | 40.25 | 100.00                    | 100.00   | 100.00   | 100.00   | 0.00                              | -70.84    | 100.00   |     | No. People   | 0        |            |  |

| COOLING COIL SELECTION |           |              |       | AREAS       |       |     |  | HEATING COIL SELECTION |              |      |      |
|------------------------|-----------|--------------|-------|-------------|-------|-----|--|------------------------|--------------|------|------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | Gross Total | Glass |     |  | Capacity               | Coil Airflow | Ent  | Lvg  |
| kW                     | kW        | L/s          | °C    |             | m²    | (%) |  | kW                     | L/s          | °C   | °C   |
| Main Clg               | 40.25     | 30.83        | 21.6  | Floor       |       |     |  | Main Htg               | 1,950        | 19.2 | 24.0 |
| Aux Clg                | 0.00      | 0.00         | 0.0   | Part        | 9     |     |  | Aux Htg                | 0            | 0.0  | 0.0  |
| Opt Vent               | 0.00      | 0            | 0.0   | ExFlr       | 0     |     |  | Preheat                | 1,950        | -4.9 | 22.7 |
| Total                  | 40.25     |              |       | Roof        | 0     | 0   |  | Reheat                 | 1,950        | 19.2 | 24.0 |
|                        |           |              |       | Wall        | 0     | 0   |  | Humidif                | 1,950        | 0.5  | 8.1  |
|                        |           |              |       |             |       |     |  | Opt Vent               | 0            | 0.0  | 0.0  |
|                        |           |              |       |             |       |     |  | Total                  | -113.6       |      |      |



Room Checksums

By GOCSA

AP0203-MANTENIMIENTO PAB\_C

| COOLING COIL PEAK            |       |        |       | CLG SPACE PEAK         |          |       |          | HEATING COIL PEAK              |           |          |  |
|------------------------------|-------|--------|-------|------------------------|----------|-------|----------|--------------------------------|-----------|----------|--|
| Peaked at Time: Outside Air: |       |        |       | Mo/Hr: 7 / 15 OADB: 36 |          |       |          | Mo/Hr: Heating Design OADB: -5 |           |          |  |
| Sens. + Lat.                 | Space | Plenum | Net   | Space                  | Percent  | Space | Percent  | Space Sens                     | Coil Peak | Percent  |  |
| kW                           | kW    | kW     | Total | Sensible               | Of Total | kW    | Of Total | kW                             | Tot Sens  | Of Total |  |
| Envelope Loads               |       |        |       |                        |          |       |          |                                |           |          |  |
|                              |       |        |       |                        | (%)      |       | (%)      |                                |           | (%)      |  |
| Skylite Solar                | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Skylite Cond                 | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Roof Cond                    | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Solar                  | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Cond                   | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Wall Cond                    | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Partition                    | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exposed Floor                | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Infiltration                 | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Internal Loads               |       |        |       |                        |          |       |          |                                |           |          |  |
| Lights                       | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| People                       | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Misc                         | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Ceiling Load                 |       |        |       |                        |          |       |          |                                |           |          |  |
| Ventilation Load             | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Adj Air Trans Heat           | 0.00  | 0.00   | 20.03 | 0.00                   | 91       | 0.00  | 0        | 0.00                           | -43.12    | 100      |  |
| Dehumid. Ov Sizing           | 0.00  | 0.00   | 0     | 0                      | 0        | 0     | 0        | 0                              | 0         | 0        |  |
| OvUndr Sizing                | -1.45 | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exhaust Heat                 | -1.45 | 0.00   | -1.45 | 0.00                   | -7       | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Sup. Fan Heat                | 2.07  | 0.00   | 2.07  | 0.00                   | 9        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Ret. Fan Heat                | 1.45  | 0.00   | 1.45  | 0.00                   | 7        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Duct Heat Pkup               | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Reheat at Design             | 0.00  | 0.00   | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Grand Total ==>              | 0.00  | 0.00   | 22.10 | 0.00                   | 100.00   | 0.00  | 100.00   | 0.00                           | -43.12    | 100.00   |  |

TEMPERATURES

|          |         |         |
|----------|---------|---------|
| SADB     | Cooling | Heating |
| Plenum   | 24.0    | 22.0    |
| Return   | 24.0    | 22.0    |
| Ret/OA   | 36.5    | -4.9    |
| Fn MtrTD | 0.1     | 0.0     |
| Fn BidTD | 0.3     | 0.0     |
| Fn Frict | 0.9     | 0.0     |

AIRFLOWS

|            |         |         |
|------------|---------|---------|
| Vent       | Cooling | Heating |
| Infil      | 1,400   | 1,400   |
| Supply     | 0       | 0       |
| MinStop/Rh | 1,400   | 1,400   |
| Return     | 0       | 0       |
| Exhaust    | 1,400   | 1,400   |
| Rm Exh     | 1,400   | 1,400   |
| Auxil      | 0       | 0       |

ENGINEERING CKS

|            |          |           |
|------------|----------|-----------|
| % OA       | Cooling  | Heating   |
| Lps/m²     | 100.0    | 100.0     |
| Lps/kW     | 150.70   | 150.70    |
| m²/kW      | 63.35    | 63.35     |
| W/m²       | 0.42     | 0.42      |
| No. People | 2,377.45 | -4,639.46 |

COOLING COIL SELECTION

| Total Capacity | Sens Cap. | Coil Airflow | Enter | DB/WB/HR  | Leave     | DB/WB/HR |
|----------------|-----------|--------------|-------|-----------|-----------|----------|
| kW             | kW        | L/s          | °C    | °C g/kg   | °C        | °C g/kg  |
| Main Clg       | 22.10     | 1,400        | 36.5  | 21.6 11.5 | 22.7 17.5 | 11.5     |
| Aux Clg        | 0.00      | 0.00         | 0 0.0 | 0.0 0.0   | 0.0 0.0   | 0.0      |
| Opt Vent       | 0.00      | 0            | 0 0.0 | 0.0 0.0   | 0.0 0.0   | 0.0      |
| Total          | 22.10     |              |       |           |           |          |

AREAS

| Gross Total | Glass | (%) |
|-------------|-------|-----|
| m²          |       |     |
| Floor       | 9     |     |
| Part        | 0     |     |
| ExFlr       | 0     |     |
| Roof        | 0     | 0   |
| Wall        | 0     | 0   |

HEATING COIL SELECTION

| Capacity | Coil Airflow | Ent   | Lvg       |
|----------|--------------|-------|-----------|
| kW       | L/s          | °C    | °C        |
| Main Htg | -43.1        | 1,400 | -4.9 22.0 |
| Aux Htg  | 0.0          | 0     | 0.0 0.0   |
| Preheat  | -44.3        | 1,400 | -4.9 22.7 |
| Humidif  | 0.0          | 0     | 0.0 0.0   |
| Opt Vent | 0.0          | 0     | 0.0 0.0   |
| Total    | -43.1        |       |           |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums reported



Room Checksums

By GOCSA

AP0205-ADMINISTRACION

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK         |          |          |          | HEATING COIL PEAK              |           |          |     | TEMPERATURES |         |          |           |
|------------------------------|--------------|--------------|-------|------------------------|----------|----------|----------|--------------------------------|-----------|----------|-----|--------------|---------|----------|-----------|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 36 |          |          |          | Mo/Hr: Heating Design OADB: -5 |           |          |     |              |         |          |           |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                  | Percent  | Percent  | Percent  | Space Peak                     | Coil Peak | Percent  |     | SADB         | Cooling | Heating  |           |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible               | Of Total | Of Total | Of Total | Space Sens                     | Tot Sens  | Of Total | (%) | Plenum       | 24.0    | 22.0     |           |
| kW                           | kW           | kW           | kW    | kW                     | (%)      | (%)      | (%)      | kW                             | kW        | (%)      |     | Return       | 24.0    | 22.0     |           |
|                              |              |              |       |                        |          |          |          |                                |           |          |     | Ret/OA       | 36.5    | -4.9     |           |
|                              |              |              |       |                        |          |          |          |                                |           |          |     | Fn MtrTD     | 0.1     | 0.0      |           |
|                              |              |              |       |                        |          |          |          |                                |           |          |     | Fn BidTD     | 0.3     | 0.0      |           |
|                              |              |              |       |                        |          |          |          |                                |           |          |     | Fn Frict     | 0.9     | 0.0      |           |
| Envelope Loads               |              |              |       | Envelope Loads         |          |          |          |                                |           |          |     |              |         |          |           |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Roof Cond                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Glass Solar                  | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Glass Cond                   | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Wall Cond                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Partition                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Exposed Floor                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Sub Total ==>                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Internal Loads               |              |              |       | Internal Loads         |          |          |          |                                |           |          |     |              |         |          |           |
| Lights                       | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| People                       | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Misc                         | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Sub Total ==>                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Ceiling Load                 |              |              |       | Ceiling Load           |          |          |          |                                |           |          |     |              |         |          |           |
| Ventilation Load             | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Adj Air Trans Heat           | 0            | 0.00         | 8.58  | 0.00                   | 91       | 0        | 0        | 0.00                           | -18.48    | 100      | 0   |              |         |          |           |
| Dehumid. Ov Sizing           |              |              | 0     |                        | 0        | 0        | 0        |                                | 0         |          |     |              |         |          |           |
| OvUndr Sizing                | 0.00         |              | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0   |              |         |          |           |
| Exhaust Heat                 |              | -0.62        | -0.62 |                        | -7       |          |          |                                | 0.00      |          |     |              |         | 64.59    |           |
| Sup. Fan Heat                |              | 0.89         | 0.89  |                        | 9        |          |          |                                | 0.00      |          |     |              |         | 63.35    |           |
| Ret. Fan Heat                |              | 0.62         | 0.62  |                        | 7        |          |          |                                | 0.00      |          |     |              |         | 0.98     |           |
| Duct Heat Pkup               |              | 0.00         | 0.00  |                        | 0        |          |          |                                | 0.00      |          |     |              |         | 1,018.91 | -1,988.34 |
| Reheat at Design             |              |              | 0.00  |                        | 0        |          |          |                                | 0.00      |          |     |              |         |          |           |
| Grand Total ==>              | 0.00         | 0.00         | 9.47  | 0.00                   | 100.00   |          |          | 0.00                           | -18.48    | 100.00   |     | No. People   |         | 0        |           |

| COOLING COIL SELECTION |           |              |       |          |         | AREAS       |       |     |   |
|------------------------|-----------|--------------|-------|----------|---------|-------------|-------|-----|---|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | DB/WB/HR | Leave   | Gross Total | Glass |     |   |
| kW                     | kW        | L/s          | °C    | °C g/kg  | °C g/kg |             | m²    | (%) |   |
| Main Clg               | 9.47      | 600          | 36.5  | 21.6     | 11.5    | Floor       | 9     |     |   |
| Aux Clg                | 0.00      | 0            | 0.0   | 0.0      | 0.0     | Part        | 0     |     |   |
| Opt Vent               | 0.00      | 0            | 0.0   | 0.0      | 0.0     | ExFlr       | 0     |     |   |
| Total                  | 9.47      |              |       |          |         | Roof        | 0     | 0   | 0 |
|                        |           |              |       |          |         | Wall        | 0     | 0   | 0 |

| HEATING COIL SELECTION |              |     |      |      |  |
|------------------------|--------------|-----|------|------|--|
| Capacity               | Coil Airflow | Ent | Lvg  |      |  |
| kW                     | L/s          | °C  | °C   |      |  |
| Main Htg               | -18.5        | 600 | -4.9 | 22.0 |  |
| Aux Htg                | 0.0          | 0   | 0.0  | 0.0  |  |
| Preheat                | -19.0        | 600 | -4.9 | 22.7 |  |
| Humidif                | 0.0          | 0   | 0.0  | 0.0  |  |
| Opt Vent               | 0.0          | 0   | 0.0  | 0.0  |  |
| Total                  | -18.5        |     |      |      |  |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums report of 194



Room Checksums

By GOCSA

AP0209-AUXILIAR HD Y BQ

| COOLING COIL PEAK   |                    |                    |           | CLG SPACE PEAK                 |                |                  |                    | HEATING COIL PEAK     |                    |                  |                 | TEMPERATURES |           |  |  |
|---|--------------------|--------------------|-----------|--------------------------------|----------------|------------------|--------------------|-----------------------|--------------------|------------------|-----------------|--------------|-----------|--|--|
| Peaked at Time: Outside Air: OADBWB/Hr: 36 / 22 / 11 Mo/Hr: 7 / 15 OADB: 36 |                    |                    |           | Mo/Hr: Heating Design OADB: -5 |                |                  |                    |                       |                    |                  |                 |              |           |  |  |
| Envelope Loads  | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total               | Space Sensible | Percent Of Total | Envelope Loads     | Space Peak Space Sens | Coil Peak Tot Sens | Percent Of Total | SADB            | Cooling      | Heating   |  |  |
|   | kW                 | kW                 | kW        | (%)                            | kW             | (%)              |                    | kW                    | kW                 | (%)              |                 |              |           |  |  |
| Skylite Solar   | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | Skylite Solar      | 0.00                  | 0.00               | 0                |                 | 24.0         | 22.0      |  |  |
| Skylite Cond  | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | Skylite Cond       | 0.00                  | 0.00               | 0                | Plenum          | 24.0         | 22.0      |  |  |
| Roof Cond   | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | Roof Cond          | 0.00                  | 0.00               | 0                | Return          | 24.9         | 22.0      |  |  |
| Glass Solar   | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | Glass Solar        | 0.00                  | 0.00               | 0                | Ret/OA          | 36.5         | -4.9      |  |  |
| Glass Cond  | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | Glass Cond         | 0.00                  | 0.00               | 0                | Fn MtrTD        | 0.2          | 0.0       |  |  |
| Wall Cond   | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | Glass Cond         | 0.00                  | 0.00               | 0                | Fn BidTD        | 0.4          | 0.0       |  |  |
| Partition   | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | Wall Cond          | 0.00                  | 0.00               | 0                | Fn Frict        | 1.1          | 0.0       |  |  |
| Exposed Floor   | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | Partition          | 0.00                  | 0.00               | 0                |                 |              |           |  |  |
| Infiltration  | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | Exposed Floor      | 0.00                  | 0.00               | 0                |                 |              |           |  |  |
| Sub Total ==>   | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | Infiltration       | 0.00                  | 0.00               | 0                |                 |              |           |  |  |
|   |                    |                    |           |                                |                |                  | Sub Total ==>      | 0.00                  | 0.00               | 0                |                 |              |           |  |  |
| Internal Loads  |                    |                    |           |                                |                |                  | Internal Loads     |                       |                    |                  | AIRFLOWS        |              |           |  |  |
| Lights  | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | Lights             | 0.00                  | 0.00               | 0                | Vent            | Cooling      | Heating   |  |  |
| People  | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | People             | 0.00                  | 0.00               | 0                | Infil           | 1,500        | 1,500     |  |  |
| Misc  | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | Misc               | 0.00                  | 0.00               | 0                | Supply          | 0            | 0         |  |  |
| Sub Total ==>   | 0.00               | 0.00               | 0.00      | 0                              | 0.00           | 0                | Sub Total ==>      | 0.00                  | 0.00               | 0                | MinStop/Rh      | 1,500        | 1,500     |  |  |
|   |                    |                    |           |                                |                |                  |                    |                       |                    |                  | Return          | 1,500        | 1,500     |  |  |
|   |                    |                    |           |                                |                |                  |                    |                       |                    |                  | Exhaust         | 1,500        | 1,500     |  |  |
|   |                    |                    |           |                                |                |                  |                    |                       |                    |                  | Rm Exh          | 0            | 0         |  |  |
|   |                    |                    |           |                                |                |                  |                    |                       |                    |                  | Auxil           | 0            | 0         |  |  |
| Ceiling Load  |                    |                    |           |                                |                |                  | Ceiling Load       | 0.00                  | 0                  | 0                |                 |              |           |  |  |
| Ventilation Load  | 0.00               | 0.00               | 21.46     | 89                             | 0.00           | 0                | Ventilation Load   | 0.00                  | -46.20             | 100              | ENGINEERING CKS |              |           |  |  |
| Adj Air Trans Heat  | 0                  | 0.00               | 0         | 0                              | 0              | 0                | Adj Air Trans Heat | 0                     | 0                  | 0                | % OA            | Cooling      | Heating   |  |  |
| Dehumid. Ov Sizing  |                    |                    |           | 0                              |                | 0                |                    |                       |                    |                  |                 | 100.0        | 100.0     |  |  |
| OvUndr Sizing   | 0.00               |                    | 0.00      | 0                              | 0.00           | 0                | OvUndr Sizing      | 0.00                  | 0.00               | 0                | Lps/m²          | 161.46       | 161.46    |  |  |
| Exhaust Heat  |                    | -1.55              | -1.55     | -6                             |                | 0                | Exhaust Heat       | 0.00                  | 0.00               | 0                | Lps/kW          | 62.18        |           |  |  |
| Sup. Fan Heat   |                    |                    | 2.66      | 11                             |                | 0                | OA Preheat Diff.   | 0.00                  | 0.00               | 0                | m²/kW           | 0.39         |           |  |  |
| Ret. Fan Heat   |                    | 1.55               | 1.55      | 6                              |                | 0                | RA Preheat Diff.   | 0.00                  | 0.00               | 0                | W/m²            | 2,594.95     | -4,970.85 |  |  |
| Duct Heat Pkpu  |                    | 0.00               | 0.00      | 0                              |                | 0                | Additional Reheat  | 0.00                  | 0.00               | 0                | No. People      | 0            |           |  |  |
| Reheat at Design  |                    | 0.00               | 0.00      | 0                              |                | 0                | System Plenum Heat | 0.00                  | 0.00               | 0                |                 |              |           |  |  |
| Grand Total ==>   | 0.00               | 0.00               | 24.12     | 100.00                         | 0.00           | 100.00           | Grand Total ==>    | 0.00                  | -46.20             | 100.00           |                 |              |           |  |  |

TEMPERATURES

|          |         |         |
|----------|---------|---------|
| SADB     | Cooling | Heating |
| Plenum   | 24.0    | 22.0    |
| Return   | 24.0    | 22.0    |
| Ret/OA   | 36.5    | -4.9    |
| Fn MtrTD | 0.2     | 0.0     |
| Fn BidTD | 0.4     | 0.0     |
| Fn Frict | 1.1     | 0.0     |

AIRFLOWS

|            |         |         |
|------------|---------|---------|
| Vent       | Cooling | Heating |
| Infil      | 1,500   | 1,500   |
| Supply     | 0       | 0       |
| MinStop/Rh | 1,500   | 1,500   |
| Return     | 0       | 0       |
| Exhaust    | 1,500   | 1,500   |
| Rm Exh     | 1,500   | 1,500   |
| Auxil      | 0       | 0       |

ENGINEERING CKS

|            |          |           |
|------------|----------|-----------|
| % OA       | Cooling  | Heating   |
| Lps/m²     | 100.0    | 100.0     |
| Lps/kW     | 161.46   | 161.46    |
| m²/kW      | 62.18    | 62.18     |
| W/m²       | 0.39     | 0.39      |
| No. People | 2,594.95 | -4,970.85 |

COOLING COIL SELECTION

| Total Capacity | Sens Cap. | Coil Airflow | Enter | DB/WB/HR | Leave | DB/WB/HR |
|----------------|-----------|--------------|-------|----------|-------|----------|
| kW             | kW        | L/s          | °C    | °C g/kg  | °C    | g/kg     |
| Main Clg       | 24.12     | 1,500        | 36.5  | 21.6     | 22.5  | 17.4     |
| Aux Clg        | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      |
| Opt Vent       | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      |
| Total          | 24.12     |              |       |          |       |          |

AREAS

| Gross Total | Glass | (%) |
|-------------|-------|-----|
| m²          |       |     |
| Floor       | 9     |     |
| Part        | 0     |     |
| ExFlr       | 0     |     |
| Roof        | 0     | 0   |
| Wall        | 0     | 0   |

HEATING COIL SELECTION

| Capacity | Coil Airflow | Ent   | Lvg  |
|----------|--------------|-------|------|
| kW       | L/s          | °C    | °C   |
| Main Htg | -46.2        | 1,500 | -4.9 |
| Aux Htg  | 0.0          | 0     | 0.0  |
| Preheat  | -47.0        | 1,500 | -4.9 |
| Humidif  | 0.0          | 0     | 0.0  |
| Opt Vent | 0.0          | 0     | 0.0  |
| Total    | -46.2        |       |      |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums report of 194



CL0102 01 ALMACEN

| COOLING COIL PEAK |                    |                         |           | CLG SPACE PEAK   |                |                       |                       | HEATING COIL PEAK  |                  |            |   | TEMPERATURES |         |     |  |  |  |
|-------------------|--------------------|-------------------------|-----------|------------------|----------------|-----------------------|-----------------------|--------------------|------------------|------------|---|--------------|---------|-----|--|--|--|
| Peaked at Time:   |                    | Mo/Hr: 7 / 15           |           | Mo/Hr: 9 / 18    |                | Mo/Hr: Heating Design |                       |                    |                  |            |   |              |         |     |  |  |  |
| Outside Air:      |                    | OADBWB/HR: 36 / 22 / 11 |           | OADB: 26         |                | OADB: -5              |                       |                    |                  |            |   |              |         |     |  |  |  |
| Envelope Loads    | Space Sens. + Lat. | Plenum Sens. + Lat      | Net Total | Percent Of Total | Space Sensible | Percent Of Total      | Space Peak Space Sens | Coil Peak Tot Sens | Percent Of Total | AIRFLOWS   | Cooling   |              | Heating |     |  |  |  |
|                   | kW                 | kW                      | kW        | (%)              | kW             | (%)                   | kW                    | kW                 | (%)              |            | Vent  | 155          | 155     | 155 |  |  |  |
|                   | 0.00               | 0.00                    | 0.00      | 0                | 0.00           | 0                     | 0.00                  | 0.00               | 0                |            | Infil <th>0</th> <th>155</th> <th>155</th>        | 0            | 155     | 155 |  |  |  |
|                   | 0.00               | 0.00                    | 0.00      | 0                | 0.00           | 0                     | 0.00                  | 0.00               | 0                |            | Supply <th>0</th> <th>155</th> <th>155</th>       | 0            | 155     | 155 |  |  |  |
|                   | 0.00               | 0.00                    | 0.00      | 0                | 0.00           | 0                     | 0.00                  | 0.00               | 0                |            | MinStop/Rh <th>155</th> <th>155</th> <th>155</th> | 155          | 155     | 155 |  |  |  |
|                   | 0.00               | 0.00                    | 0.00      | 0                | 0.00           | 0                     | 0.00                  | 0.00               | 0                |            | Return <th>155</th> <th>155</th> <th>155</th>     | 155          | 155     | 155 |  |  |  |
|                   | 0.00               | 0.00                    | 0.00      | 0                | 0.00           | 0                     | 0.00                  | 0.00               | 0                |            | Exhaust <th>155</th> <th>155</th> <th>155</th>    | 155          | 155     | 155 |  |  |  |
|                   | 0.00               | 0.00                    | 0.00      | 0                | 0.00           | 0                     | 0.00                  | 0.00               | 0                |            | Rm Exh <th>0</th> <th>0</th> <th>0</th>           | 0            | 0       | 0   |  |  |  |
|                   | 0.00               | 0.00                    | 0.00      | 0                | 0.00           | 0                     | 0.00                  | 0.00               | 0                |            | Auxil <th>0</th> <th>0</th> <th>0</th>            | 0            | 0       | 0   |  |  |  |
|                   | 0.41               | 0.10                    | 0.51      | 13               | 0.79           | 0                     | -0.20                 | -0.43              | 7                |            |   |              |         |     |  |  |  |
|                   | Sub Total ==>      |                         |           |                  |                |                       |                       |                    |                  |            |   |              |         |     |  |  |  |
| Internal Loads    | Lights             | 0.18                    | 0.05      | 0.23             | 0.18           | 0                     | 0.00                  | 0.00               | 0                |            |   |              |         |     |  |  |  |
|                   | People             | 0.00                    | 0.00      | 0.00             | 0              | 0                     | 0.00                  | 0.00               | 0                |            |   |              |         |     |  |  |  |
|                   | Misc               | 0.00                    | 0.00      | 0.00             | 0              | 0                     | 0.00                  | 0.00               | 0                |            |   |              |         |     |  |  |  |
|                   | Sub Total ==>      | 0.18                    | 0.05      | 0.23             | 0.18           | 0                     | 0.00                  | 0.00               | 0                |            |   |              |         |     |  |  |  |
|                   | Ceiling Load       | 0.03                    | -0.03     | 0.00             | 0              | 0                     | -0.04                 | 0                  | 0                |            |   |              |         |     |  |  |  |
|                   | Ventilation Load   | 0.00                    | 0.00      | 2.95             | 77             | 0                     | 0.00                  | -4.78              | 76               |            |   |              |         |     |  |  |  |
|                   | Adj Air Trans Heat | 0                       |           | 0                | 0              | 0                     | 0                     | 0                  | 0                |            |   |              |         |     |  |  |  |
|                   | Dehumid. Ov Sizing |                         |           | 0                | 0              |                       |                       |                    |                  |            |   |              |         |     |  |  |  |
|                   | Ov/Undr Sizing     | 0.00                    |           | 0.00             | 0              | 0                     | 0.00                  | 0.00               | 0                |            |   |              |         |     |  |  |  |
|                   | Exhaust Heat       |                         | -0.29     | -0.29            | -8             |                       |                       | 0.00               | 0.19             | -3         |   |              |         |     |  |  |  |
|                   | Sup. Fan Heat      |                         |           | 0.27             | 7              |                       |                       | 0.00               | 0.00             | 0          |   |              |         |     |  |  |  |
| Ret. Fan Heat     |                    | 0.16                    | 0.16      | 4                |                |                       | 0.00                  | 0.00               | 0                |            |   |              |         |     |  |  |  |
| Duct Heat PkUp    |                    | 0.00                    | 0.00      | 0                |                |                       | -1.26                 | -1.26              | 20               |            |   |              |         |     |  |  |  |
| Reheat at Design  |                    | 0.00                    | 0.00      | 0                |                |                       | 0.00                  | 0.00               | 0                |            |   |              |         |     |  |  |  |
| Grand Total ==>   | 0.62               | -0.01                   | 3.83      | 100.00           | 0.98           | 100.00                | -0.24                 | -6.28              | 100.00           |            |   |              |         |     |  |  |  |
|                   |                    |                         |           |                  |                |                       |                       |                    |                  | No. People | 0   |              |         |     |  |  |  |
| ENGINEERING CKS   |                    |                         |           | Cooling          |                | Heating               |                       |                    |                  |            |   |              |         |     |  |  |  |
| % OA              | 100.0              |                         | 100.0     |                  | 100.0          |                       |                       |                    |                  |            |   |              |         |     |  |  |  |
| Lps/m²            | 7.50               |                         | 7.50      |                  | 7.50           |                       |                       |                    |                  |            |   |              |         |     |  |  |  |
| Lps/kW            | 40.42              |                         | 40.42     |                  | 40.42          |                       |                       |                    |                  |            |   |              |         |     |  |  |  |
| m²/kW             | 5.39               |                         | 5.39      |                  | 5.39           |                       |                       |                    |                  |            |   |              |         |     |  |  |  |
| W/m²              | 185.42             |                         | 185.42    |                  | -406.16        |                       |                       |                    |                  |            |   |              |         |     |  |  |  |

| COOLING COIL SELECTION |                 |                     |             |                |      | AREAS       |             |              |  |  |  |
|------------------------|-----------------|---------------------|-------------|----------------|------|-------------|-------------|--------------|--|--|--|
| Total Capacity<br>kW   | Sens Cap.<br>kW | Coil Airflow<br>L/s | Enter<br>°C | DB/WB/HR<br>°C | g/kg | Gross Total | Glass<br>m² | Glass<br>(%) |  |  |  |
| Main Clg               | 3.84            | 155                 | 36.5        | 21.6           | 11.5 | Floor       | 21          |              |  |  |  |
| Aux Clg                | 0.00            | 0.00                | 0.0         | 0.0            | 0.0  | Part        | 50          |              |  |  |  |
| Opt Vent               | 0.00            | 0                   | 0.0         | 0.0            | 0.0  | ExFlr       | 0           |              |  |  |  |
| Total                  | 3.84            |                     |             |                |      | Roof        | 21          |              |  |  |  |
|                        |                 |                     |             |                |      | Wall        | 10          |              |  |  |  |

| HEATING COIL SELECTION |                     |           |           |      | AREAS       |             |              |  |  |
|------------------------|---------------------|-----------|-----------|------|-------------|-------------|--------------|--|--|
| Capacity<br>kW         | Coil Airflow<br>L/s | Ent<br>°C | Lvg<br>°C |      | Gross Total | Glass<br>m² | Glass<br>(%) |  |  |
| Main Htg               | -1.3                | 155       | 16.9      | 24.0 | Floor       | 21          |              |  |  |
| Aux Htg                | 0.0                 | 0         | 0.0       | 0.0  | Part        | 50          |              |  |  |
| Preheat                | -3.9                | 155       | -4.9      | 16.9 | ExFlr       | 0           |              |  |  |
| Reheat                 | -1.3                | 155       | 16.9      | 24.0 | Roof        | 21          |              |  |  |
| Humidif                | -3.3                | 155       | 0.5       | 8.1  | Wall        | 10          |              |  |  |
| Opt Vent               | 0.0                 | 0         | 0.0       | 0.0  |             |             |              |  |  |
| Total                  | -8.4                |           |           |      |             |             |              |  |  |



CL0102 02 PASILLO

| COOLING COIL PEAK               |  |  |  |  |  |  |                             |  |                    | CLG SPACE PEAK            |                            |  |                         |  | HEATING COIL PEAK                 |  |                                |  |                             | TEMPERATURES   |                            |  |                    |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|-----------------------------|--|--------------------|---------------------------|----------------------------|--|-------------------------|--|-----------------------------------|--|--------------------------------|--|-----------------------------|--|----------------------------|--|--------------------|--|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |  |                             |  |                    | Mo/Hr: 7 / 19<br>OADB: 30 |                            |  |                         |  | Mo/Hr: Heating Design<br>OADB: -5 |  |                                |  |                             | SADB<br>Plenum<br>Return<br>Ret/OA<br>Fn MtrTD<br>Fn BidTD<br>Fn Frict |                            |  |                    |  |  |  |  |  |  |
| Sens. + Lat.<br>kW              |  |  |  |  | Space<br>kW                              |  | Plenum<br>Sens. + Lat<br>kW |  | Net<br>Total<br>kW |                           | Percent<br>Of Total<br>(%) |  | Space<br>Sensible<br>kW |  | Percent<br>Of Total<br>(%)        |  | Space Peak<br>Space Sens<br>kW |  | Coil Peak<br>Tot Sens<br>kW |  | Percent<br>Of Total<br>(%) |  | Cooling<br>Heating |  |  |  |  |  |  |
| Envelope Loads                  |  |  |  |  |  |  |                             |  |                    | Envelope Loads            |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
| Skylite Solar                   |  |  |  |  | 0.00                                     |  | 0.00                        |  | 0.00               |                           | 0                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0                  |  |  |  |  |  |  |
| Skylite Cond                    |  |  |  |  | 0.00                                     |  | 0.00                        |  | 0.00               |                           | 0                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0                  |  |  |  |  |  |  |
| Roof Cond                       |  |  |  |  | 0.00                                     |  | 0.43                        |  | 0.43               |                           | 2                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | -0.91                       |  | 4                          |  | 0                  |  |  |  |  |  |  |
| Glass Solar                     |  |  |  |  | 0.00                                     |  | 0.00                        |  | 0.00               |                           | 0                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0                  |  |  |  |  |  |  |
| Glass Cond                      |  |  |  |  | 0.00                                     |  | 0.00                        |  | 0.00               |                           | 0                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0                  |  |  |  |  |  |  |
| Wall Cond                       |  |  |  |  | 0.00                                     |  | 0.00                        |  | 0.00               |                           | 0                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0                  |  |  |  |  |  |  |
| Partition                       |  |  |  |  | 0.00                                     |  | 0.00                        |  | 0.00               |                           | 0                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0                  |  |  |  |  |  |  |
| Exposed Floor                   |  |  |  |  | 0.00                                     |  | 0.00                        |  | 0.00               |                           | 0                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0                  |  |  |  |  |  |  |
| Infiltration                    |  |  |  |  | 0.00                                     |  | 0.00                        |  | 0.00               |                           | 0                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0                  |  |  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.00                                     |  | 0.43                        |  | 0.43               |                           | 2                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | -0.91                       |  | 4                          |  | 0                  |  |  |  |  |  |  |
| Internal Loads                  |  |  |  |  |  |  |                             |  |                    | Internal Loads            |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
| Lights                          |  |  |  |  | 0.51                                     |  | 0.13                        |  | 0.64               |                           | 3                          |  | 0.51                    |  | 35                                |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0                  |  |  |  |  |  |  |
| People                          |  |  |  |  | 1.48                                     |  | 0.00                        |  | 1.48               |                           | 8                          |  | 0.81                    |  | 55                                |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0                  |  |  |  |  |  |  |
| Misc                            |  |  |  |  | 0.00                                     |  | 0.00                        |  | 0.00               |                           | 0                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0                  |  |  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 1.99                                     |  | 0.13                        |  | 2.12               |                           | 11                         |  | 1.32                    |  | 90                                |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0                  |  |  |  |  |  |  |
| Ceiling Load                    |  |  |  |  |  |  |                             |  |                    | Ceiling Load              |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
| Ventilation Load                |  |  |  |  | 0.12                                     |  | -0.12                       |  | 0.00               |                           | 0                          |  | 0.14                    |  | 10                                |  | -0.17                          |  | 0                           |  | 0                          |  | 0                  |  |  |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | 0.00                                     |  | 0.00                        |  | 14.20              |                           | 75                         |  | 0.00                    |  | 0                                 |  | 0.00                           |  | -20.96                      |  | 83                         |  | 0                  |  |  |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | 0.00                                     |  | -1.29                       |  | 2                  |                           | 9                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0                  |  |  |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | 0.00                                     |  | -1.29                       |  | -1.29              |                           | -7                         |  | 0.00                    |  | 0                                 |  | 0.83                           |  | 0.83                        |  | -3                         |  | 7.50               |  |  |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | 0.00                                     |  | 0.00                        |  | 1.21               |                           | 6                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | 0.00                        |  | 0                          |  | 35.85              |  |  |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | 0.00                                     |  | 0.70                        |  | 0.70               |                           | 4                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | 0.00                        |  | 0                          |  | 4.78               |  |  |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | 0.00                                     |  | 0.00                        |  | 0.00               |                           | 0                          |  | 0.00                    |  | 0                                 |  | -4.15                          |  | -4.15                       |  | 16                         |  | 209.10             |  |  |  |  |  |  |
| Duct Heat PkUp                  |  |  |  |  | 0.00                                     |  | 0.00                        |  | 0.00               |                           | 0                          |  | 0.00                    |  | 0                                 |  | -0.10                          |  | -0.10                       |  | 0                          |  | -422.54            |  |  |  |  |  |  |
| Reheat at Design                |  |  |  |  | 0.00                                     |  | 0.00                        |  | 0.00               |                           | 0                          |  | 0.00                    |  | 0                                 |  | 0.00                           |  | 0.00                        |  | 0                          |  | 9                  |  |  |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | 2.11                                     |  | -0.15                       |  | 19.00              |                           | 100.00                     |  | 1.46                    |  | 100.00                            |  | -0.17                          |  | -25.29                      |  | 100.00                     |  | No. People         |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |                             |  |                    |                           |                            |  |                         |  |                                   |  |                                |  |                             |  |                            |  |                    |  |  |  |  |  |  |



## Room Checksums

By GOCSA

## CL0102 03 PREPARACION

| COOLING COIL PEAK            |  |       |             |  |       |  |          |  |          | CLG SPACE PEAK                            |  |           |  | HEATING COIL PEAK         |  |          |  | TEMPERATURES                      |  |            |  |  |  |         |  |  |  |     |  |  |  |
|------------------------------|--|-------|-------------|--|-------|--|----------|--|----------|---|--|-----------|--|---------------------------|--|----------|--|-----------------------------------|--|------------|--|--|--|---------|--|--|--|-----|--|--|--|
| Peaked at Time: Outside Air: |  |       |             |  |       |  |          |  |          | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |  |           |  | Mo/Hr: 7 / 19<br>OADB: 30 |  |          |  | Mo/Hr: Heating Design<br>OADB: -5 |  |            |  |  |  |         |  |  |  |     |  |  |  |
| Sens. + Lat.                 |  | Space | Plenum      |  | Net   |  | Space    |  | Percent  | Space Peak                                |  | Coil Peak |  | Percent                   |  | SADB     |  | Cooling                           |  | Heating    |  |  |  |         |  |  |  |     |  |  |  |
| kW                           |  | kW    | Sens. + Lat |  | Total |  | Sensible |  | Of Total | Space Sens                                |  | Tot Sens  |  | Of Total                  |  | Plenum   |  | Return                            |  | Return     |  |  |  |         |  |  |  |     |  |  |  |
| kW                           |  | kW    | kW          |  | kW    |  | kW       |  | (%)      | kW  |  | kW        |  | kW                        |  | Ret/OA   |  | 36.5                              |  | 25.7       |  |  |  |         |  |  |  |     |  |  |  |
| kW                           |  | kW    | kW          |  | kW    |  | kW       |  | (%)      | kW  |  | kW        |  | kW                        |  | Fn MtrTD |  | 0.2                               |  | 20.9       |  |  |  |         |  |  |  |     |  |  |  |
| kW                           |  | kW    | kW          |  | kW    |  | kW       |  | (%)      | kW  |  | kW        |  | kW                        |  | Fn BidTD |  | 0.4                               |  | 0.0        |  |  |  |         |  |  |  |     |  |  |  |
| kW                           |  | kW    | kW          |  | kW    |  | kW       |  | (%)      | kW  |  | kW        |  | kW                        |  | Fn Frict |  | 1.1                               |  | 0.0        |  |  |  |         |  |  |  |     |  |  |  |
| Envelope Loads               |  |       |             |  |       |  |          |  |          | Envelope Loads                            |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
| Skylite Solar                |  |       |             |  |       |  |          |  |          | Skylite Solar                             |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
| Skylite Cond                 |  |       |             |  |       |  |          |  |          | Skylite Cond                              |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
| Roof Cond                    |  |       |             |  |       |  |          |  |          | Roof Cond                                 |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
| Glass Solar                  |  |       |             |  |       |  |          |  |          | Glass Solar                               |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
| Glass Cond                   |  |       |             |  |       |  |          |  |          | Glass Cond                                |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
| Wall Cond                    |  |       |             |  |       |  |          |  |          | Wall Cond                                 |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
| Partition                    |  |       |             |  |       |  |          |  |          | Partition                                 |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
| Exposed Floor                |  |       |             |  |       |  |          |  |          | Exposed Floor                             |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
| Infiltration                 |  |       |             |  |       |  |          |  |          | Infiltration                              |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
| Sub Total ==>                |  |       |             |  |       |  |          |  |          | Sub Total ==>                             |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
| Internal Loads               |  |       |             |  |       |  |          |  |          | Internal Loads                            |  |           |  |                           |  |          |  |                                   |  | AIRFLOWS   |  |  |  |         |  |  |  |     |  |  |  |
| Lights                       |  |       |             |  |       |  |          |  |          | Lights                                    |  |           |  |                           |  |          |  |                                   |  | Cooling    |  |  |  | Heating |  |  |  |     |  |  |  |
| People                       |  |       |             |  |       |  |          |  |          | People                                    |  |           |  |                           |  |          |  |                                   |  | Vent       |  |  |  | 103     |  |  |  | 103 |  |  |  |
| Misc                         |  |       |             |  |       |  |          |  |          | Misc                                      |  |           |  |                           |  |          |  |                                   |  | Infil      |  |  |  | 0       |  |  |  | 0   |  |  |  |
| Sub Total ==>                |  |       |             |  |       |  |          |  |          | Sub Total ==>                             |  |           |  |                           |  |          |  |                                   |  | Supply     |  |  |  | 103     |  |  |  | 103 |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  | MinStop/Rh |  |  |  | 103     |  |  |  | 103 |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  | Return     |  |  |  | 103     |  |  |  | 103 |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  | Exhaust    |  |  |  | 103     |  |  |  | 103 |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  | Rm Exh     |  |  |  | 0       |  |  |  | 0   |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  | Auxil      |  |  |  | 0       |  |  |  | 0   |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |
|                              |  |       |             |  |       |  |          |  |          |   |  |           |  |                           |  |          |  |                                   |  |            |  |  |  |         |  |  |  |     |  |  |  |



## Room Checksums

By GOC SA

## CL0102 04 ALMACEN

| COOLING COIL PEAK               |                     |                  |                  |   |                  |                       |                    |                           |                    | CLG SPACE PEAK        |                    |                                   |  | HEATING COIL PEAK      |         |         |  | TEMPERATURES |  |  |  |
|---------------------------------|---------------------|------------------|------------------|---|------------------|-----------------------|--------------------|---------------------------|--------------------|-----------------------|--------------------|-----------------------------------|--|------------------------|---------|---------|--|--------------|--|--|--|
| Peaked at Time:<br>Outside Air: |                     |                  |                  | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |                  |                       |                    | Mo/Hr: 7 / 19<br>OADB: 30 |                    |                       |                    | Mo/Hr: Heating Design<br>OADB: -5 |  |                        |         | Cooling |  | Heating      |  |  |  |
| Space Sens. + Lat.              | Plenum Sens. + Lat. | Net Total        | Percent Of Total | Space Sensible                            | Percent Of Total | Space Peak Space Sens | Coil Peak Tot Sens | Percent Of Total          | Envelope Loads     | Space Peak Space Sens | Coil Peak Tot Sens | Percent Of Total                  | SADB Plenum Return Ret/OA Fn MtrTD Fn BldTD Fn Frict | Cooling                | Heating |         |  |              |  |  |  |
| 0.00                            | 0.00                | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                         | Skylite Solar      | 0.00                  | 0.00               | 0                                 | 0.0  | 22.8                   | 24.0    |         |  |              |  |  |  |
| 0.00                            | 0.00                | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                         | Skylite Cond       | 0.00                  | 0.00               | 0                                 | 0.0  | 24.8                   | 20.9    |         |  |              |  |  |  |
| 0.00                            | 0.04                | 0.04             | 2                | 0.00                                      | 0                | 0.00                  | -0.09              | 4                         | Roof Cond          | 0.00                  | -0.09              | 4                                 | 20.9   | 25.7                   | 20.9    |         |  |              |  |  |  |
| 0.00                            | 0.00                | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                         | Glass Solar        | 0.00                  | 0.00               | 0                                 | -4.9   | 36.5                   | -4.9    |         |  |              |  |  |  |
| 0.00                            | 0.00                | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                         | Glass Cond         | 0.00                  | 0.00               | 0                                 | 0.0  | 0.2                    | 0.0     |         |  |              |  |  |  |
| 0.00                            | 0.00                | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                         | Wall Cond          | 0.00                  | 0.00               | 0                                 | 0.4  | 0.4                    | 0.0     |         |  |              |  |  |  |
| 0.00                            | 0.00                | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                         | Partition          | 0.00                  | 0.00               | 0                                 | 0.0  | 1.1                    | 0.0     |         |  |              |  |  |  |
| 0.00                            | 0.00                | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                         | Exposed Floor      | 0.00                  | 0.00               | 0                                 | 0  | 70                     | 70      |         |  |              |  |  |  |
| 0.00                            | 0.00                | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                         | Infiltration       | 0.00                  | 0.00               | 0                                 | 0  | 0                      | 0       |         |  |              |  |  |  |
| 0.00                            | 0.04                | 0.04             | 2                | 0.00                                      | 0                | 0.00                  | -0.09              | 4                         | Sub Total ==>      | 0.00                  | -0.09              | 4                                 | 0  | 70                     | 70      |         |  |              |  |  |  |
| Internal Loads                  |                     |                  |                  |   |                  |                       |                    |                           |                    | AIRFLOWS              |                    |                                   |  |                        |         |         |  |              |  |  |  |
| 0.08                            | 0.02                | 0.10             | 6                | 0.08                                      | 0                | 0.00                  | 0.00               | 0                         | Lights             | 0.00                  | 0.00               | 0                                 | Vent   | Cooling                | Heating |         |  |              |  |  |  |
| 0.00                            | 0.00                | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                         | People             | 0.00                  | 0.00               | 0                                 | Infil  | 70                     | 70      |         |  |              |  |  |  |
| 0.00                            | 0.00                | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                         | Misc               | 0.00                  | 0.00               | 0                                 | Supply   | 70                     | 70      |         |  |              |  |  |  |
| 0.08                            | 0.02                | 0.10             | 6                | 0.08                                      | 0                | 0.00                  | 0.00               | 0                         | Sub Total ==>      | 0.00                  | 0.00               | 0                                 | MinStop/Rh Return                                    | 70                     | 70      |         |  |              |  |  |  |
| Ceiling Load                    |                     |                  |                  |   |                  |                       |                    |                           |                    | ENGINEERING CKS       |                    |                                   |  |                        |         |         |  |              |  |  |  |
| 0.01                            | -0.01               | 0.00             | 0                | 0.01                                      | 0                | -0.02                 | 0                  | 0                         | Ceiling Load       | 0.00                  | -2.16              | 84                                | % OA   | Cooling                | Heating |         |  |              |  |  |  |
| 0.00                            | 0.00                | 1.27             | 77               | 0.00                                      | 0                | 0.00                  | -2.16              | 84                        | Ventilation Load   | 0.00                  | -2.16              | 84                                | Lps/m²   | 100.0                  | 100.0   |         |  |              |  |  |  |
| 0                               | 0.00                | 0                | 0                | 0   | 0                | 0                     | 0                  | 0                         | Adj Air Trans Heat | 0                     | 0                  | 0                                 | Lps/kW   | 7.50                   | 7.50    |         |  |              |  |  |  |
| 0.00                            | -0.13               | 0.00             | 11               | 0.00                                      | 0                | 0.00                  | 0.00               | 0                         | Ov/Undr Sizing     | 0.00                  | 0.00               | 0                                 | m²/kW  | 41.92                  | 41.92   |         |  |              |  |  |  |
| 0.00                            | -0.13               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                         | Exhaust Heat       | 0.00                  | 0.00               | 0                                 | W/m²   | 5.59                   | 5.59    |         |  |              |  |  |  |
| 0.00                            | -0.13               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                         | OA Preheat Diff.   | 0.00                  | 0.00               | 0                                 | No. People   | 178.82                 | -425.71 |         |  |              |  |  |  |
| 0.00                            | 0.07                | 0.12             | 7                | 0.00                                      | 0                | 0.00                  | -0.40              | 16                        | RA Preheat Diff.   | 0.00                  | -0.40              | 16                                |  |                        |         |         |  |              |  |  |  |
| 0.00                            | 0.07                | 0.07             | 4                | 0.00                                      | 0                | 0.00                  | -0.01              | 0                         | Additional Reheat  | 0.00                  | -0.01              | 0                                 |  |                        |         |         |  |              |  |  |  |
| 0.00                            | 0.00                | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | -0.01              | 0                         | System Plenum Heat | 0.00                  | -0.01              | 0                                 |  |                        |         |         |  |              |  |  |  |
| 0.09                            | -0.01               | 1.66             | 100.00           | 0.09                                      | 100.00           | -0.02                 | -2.57              | 100.00                    | Grand Total ==>    | -0.02                 | -2.57              | 100.00                            |  |                        |         |         |  |              |  |  |  |
| COOLING COIL SELECTION          |                     |                  |                  |   |                  |                       |                    |                           |                    | AREAS                 |                    |                                   |  | HEATING COIL SELECTION |         |         |  |              |  |  |  |
| Total Capacity kW               | Sens Cap. kW        | Coil Airflow L/s | Enter °C         | Leave °C                                  | DBWB/HR °C       | DBWB/HR °C            | DBWB/HR g/kg       | Leave °C                  | Gross Total        | Glass m²              | Capacity kW        | Coil Airflow L/s                  | Ent °C   | Lvg °C                 |         |         |  |              |  |  |  |
| 1.68                            | 1.22                | 70               | 36.5             | 19.0                                      | 21.6             | 11.5                  | 10.2               | 15.2                      | Floor              | 9                     | -0.4               | 70                                | 19.0   | 24.0                   |         |         |  |              |  |  |  |
| 0.00                            | 0.00                | 0                | 0.0              | 0.0                                       | 0.0              | 0.0                   | 0.0                | 0.0                       | Part               | 41                    | 0.0                | 0                                 | 0.0  | 0.0                    |         |         |  |              |  |  |  |
| 0.00                            | 0.00                | 0                | 0.0              | 0.0                                       | 0.0              | 0.0                   | 0.0                | 0.0                       | ExFlr              | 0                     | -2.1               | 70                                | -4.9   | 21.3                   |         |         |  |              |  |  |  |
|                                 |                     |                  |                  |   |                  |                       |                    |                           | Roof               | 9                     | -0.4               | 70                                | 19.0   | 24.0                   |         |         |  |              |  |  |  |
|                                 |                     |                  |                  |   |                  |                       |                    |                           | Wall               | 0                     | -1.5               | 70                                | 0.5  | 8.1                    |         |         |  |              |  |  |  |
| 1.68                            |                     |                  |                  |   |                  |                       |                    |                           | Opt Vent           | 0                     | 0.0                | 0                                 | 0.0  | 0.0                    |         |         |  |              |  |  |  |
| Total                           |                     |                  |                  |   |                  |                       |                    |                           |                    | Total                 |                    |                                   |  | Total                  |         |         |  |              |  |  |  |



CL0102 05 ALMACEN

| COOLING COIL PEAK               |              |              |       | CLG SPACE PEAK            |          |       |          | HEATING COIL PEAK                 |           |          |  |
|---------------------------------|--------------|--------------|-------|---------------------------|----------|-------|----------|-----------------------------------|-----------|----------|--|
| Peaked at Time:<br>Outside Air: |              |              |       | Mo/Hr: 7 / 15<br>OADB: 30 |          |       |          | Mo/Hr: Heating Design<br>OADB: -5 |           |          |  |
| Sens. + Lat.                    | Space        | Plenum       | Net   | Space                     | Percent  | Space | Percent  | Space Peak                        | Coil Peak | Percent  |  |
| Sens. + Lat.                    | Sens. + Lat. | Sens. + Lat. | Total | Sensible                  | Of Total | Total | Of Total | Space Sens                        | Tot Sens  | Of Total |  |
| kW                              | kW           | kW           | kW    | kW                        | (%)      | kW    | (%)      | kW                                | kW        | (%)      |  |
| Envelope Loads                  |              |              |       |                           |          |       |          |                                   |           |          |  |
| Skylite Solar                   | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0.00  | 0        | 0.00                              | 0.00      | 0        |  |
| Skylite Cond                    | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0.00  | 0        | 0.00                              | 0.00      | 0        |  |
| Roof Cond                       | 0.00         | 0.04         | 0.04  | 0.00                      | 2        | 0.00  | 0        | 0.00                              | -0.09     | 4        |  |
| Glass Solar                     | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0.00  | 0        | 0.00                              | 0.00      | 0        |  |
| Glass Cond                      | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0.00  | 0        | 0.00                              | 0.00      | 0        |  |
| Wall Cond                       | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0.00  | 0        | 0.00                              | 0.00      | 0        |  |
| Partition                       | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0.00  | 0        | 0.00                              | 0.00      | 0        |  |
| Exposed Floor                   | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0.00  | 0        | 0.00                              | 0.00      | 0        |  |
| Infiltration                    | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0.00  | 0        | 0.00                              | 0.00      | 0        |  |
| Sub Total ==>                   | 0.00         | 0.04         | 0.04  | 0.00                      | 2        | 0.00  | 0        | 0.00                              | -0.09     | 4        |  |
| Internal Loads                  |              |              |       |                           |          |       |          |                                   |           |          |  |
| Lights                          | 0.08         | 0.02         | 0.10  | 0.08                      | 6        | 0.08  | 0        | 0.00                              | 0.00      | 0        |  |
| People                          | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0.00  | 0        | 0.00                              | 0.00      | 0        |  |
| Misc                            | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0.00  | 0        | 0.00                              | 0.00      | 0        |  |
| Sub Total ==>                   | 0.08         | 0.02         | 0.10  | 0.08                      | 6        | 0.08  | 0        | 0.00                              | 0.00      | 0        |  |
| Ceiling Load                    |              |              |       |                           |          |       |          |                                   |           |          |  |
| Ventilation Load                | 0.01         | -0.01        | 0.00  | 0.01                      | 0        | 0.01  | 0        | -0.02                             | 0         | 0        |  |
| Adj Air Trans Heat              | 0.00         | 0.00         | 1.27  | 0.00                      | 77       | 0.00  | 0        | 0.00                              | -2.16     | 84       |  |
| Dehumid. Ov Sizing              | 0            | 0            | 0     | 0                         | 11       | 0     | 0        | 0                                 | 0         | 0        |  |
| OvUndr Sizing                   | 0.00         | 0.00         | 0.00  | 0.00                      | 0        | 0.00  | 0        | 0.00                              | 0.00      | 0        |  |
| Exhaust Heat                    |              | -0.13        | -0.13 | -0.13                     | -8       |       |          | 0.09                              | 0.09      | -4       |  |
| Sup. Fan Heat                   |              | 0.12         | 0.12  | 0.12                      | 7        |       |          | 0.00                              | 0.00      | 0        |  |
| Ret. Fan Heat                   |              | 0.07         | 0.07  | 0.07                      | 4        |       |          | 0.00                              | 0.00      | 0        |  |
| Duct Heat PkUp                  |              | 0.00         | 0.00  | 0.00                      | 0        |       |          | -0.40                             | -0.40     | 16       |  |
| Reheat at Design                |              | 0.00         | 0.00  | 0.00                      | 0        |       |          | -0.01                             | -0.01     | 0        |  |
| Grand Total ==>                 | 0.09         | -0.01        | 1.66  | 0.09                      | 100.00   | 0.09  | 100.00   | -0.02                             | -2.57     | 100.00   |  |

| TEMPERATURES |         |         |  |
|--------------|---------|---------|--|
| SADB         | Cooling | Heating |  |
| Plenum       | 22.8    | 24.0    |  |
| Return       | 24.8    | 20.9    |  |
| Ret/OA       | 25.7    | 20.9    |  |
| Fn MtrTD     | 36.5    | -4.9    |  |
| Fn BidTD     | 0.2     | 0.0     |  |
| Fn Frict     | 0.4     | 0.0     |  |
|              | 1.1     | 0.0     |  |

| AIRFLOWS   |         |         |  |
|------------|---------|---------|--|
| Vent       | Cooling | Heating |  |
| Infil      | 70      | 70      |  |
| Supply     | 0       | 0       |  |
| MinStop/Rh | 70      | 70      |  |
| Return     | 70      | 70      |  |
| Exhaust    | 70      | 70      |  |
| Rm Exh     | 0       | 0       |  |
| Auxil      | 0       | 0       |  |

| ENGINEERING CKS |         |         |  |
|-----------------|---------|---------|--|
| % OA            | Cooling | Heating |  |
| Lps/m²          | 100.0   | 100.0   |  |
| Lps/kW          | 7.50    | 7.50    |  |
| m²/kW           | 41.92   |         |  |
| W/m²            | 5.59    |         |  |
|                 | 178.82  | -425.71 |  |
| No. People      |         | 0       |  |

| COOLING COIL SELECTION |           |              |                |                |
|------------------------|-----------|--------------|----------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR | Leave DB/WB/HR |
| kW                     | kW        | L/s          | °C             | °C             |
| Main Clg               | 1.68      | 1.22         | 70             | 36.5           |
| Aux Clg                | 0.00      | 0.00         | 0              | 0.0            |
| Opt Vent               | 0.00      | 0            | 0.0            | 0.0            |
| Total                  | 1.68      |              |                |                |

| AREAS       |    | Glass |   |
|-------------|----|-------|---|
| Gross Total | m² | (%)   |   |
| Floor       | 9  |       |   |
| Part        | 41 |       |   |
| ExFlr       | 0  |       |   |
| Roof        | 9  | 0     | 0 |
| Wall        | 0  | 0     | 0 |

| HEATING COIL SELECTION |              |     |      |
|------------------------|--------------|-----|------|
| Capacity               | Coil Airflow | Ent | Lvg  |
| kW                     | L/s          | °C  | °C   |
| Main Htg               | -0.4         | 70  | 19.0 |
| Aux Htg                | 0.0          | 0   | 0.0  |
| Preheat                | -2.1         | 70  | -4.9 |
| Reheat                 | -0.4         | 70  | 19.0 |
| Humidif                | -1.5         | 70  | 0.5  |
| Opt Vent               | 0.0          | 0   | 0.0  |
| Total                  | -4.0         |     |      |



| COOLING COIL SELECTION |                      |                 |                     |             |                     |                           |
|------------------------|----------------------|-----------------|---------------------|-------------|---------------------|---------------------------|
|                        | Total Capacity<br>kW | Sens Cap.<br>kW | Coil Airflow<br>L/s | Enter<br>°C | DB/WB/HR<br>°C g/kg | Leave DB/WB/HR<br>°C g/kg |
| Main Clg               | 0.10                 | 0.10            | 1                   | 25.8        | 16.6 9.1            | 11.2 2.5 1.4              |
| Aux Clg                | 0.00                 | 0.00            | 0                   | 0.0         | 0.0 0.0             | 0.0 0.0 0.0               |
| Opt Vent               | 0.00                 | 0.00            | 0                   | 0.0         | 0.0 0.0             | 0.0 0.0 0.0               |
| <b>Total</b>           | 0.10                 |                 |                     |             |                     |                           |

| AREAS |             | Glass<br>m <sup>2</sup> | (%) |
|-------|-------------|-------------------------|-----|
|       | Gross Total |                         |     |
| Floor | 5           |                         |     |
| Part  | 29          |                         |     |
| ExFlr | 0           |                         |     |
| Roof  | 5           | 0                       | 0   |
| Wall  | 0           | 0                       | 0   |

| HEATING COIL SELECTION |                |                     |           |
|------------------------|----------------|---------------------|-----------|
|                        | Capacity<br>kW | Coil Airflow<br>L/s | Ent<br>°C |
| Main Htg               | 0.0            | 1                   | 11.2      |
| Aux Htg                | 0.0            | 0                   | 0.0       |
| Preheat                | 0.0            | 0                   | 0.0       |
| Reheat                 | 0.0            | 1                   | 11.2      |
| Humidif                | 0.0            | 0                   | 0.0       |
| Opt Vent               | 0.0            | 0                   | 0.0       |
| <b>Total</b>           | 0.0            |                     |           |



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| COOLING COIL PEAK               |  |       |  |           |   |              |  |               |  | CLG SPACE PEAK            |  |              |  |               |                                   |             |  |              |  | HEATING COIL PEAK  |  |         |  |         |  |  |  |  |  | TEMPERATURES   |  |  |  |  |
|---------------------------------|--|-------|--|-----------|---|--------------|--|---------------|--|---------------------------|--|--------------|--|---------------|-----------------------------------|-------------|--|--------------|--|--|--|---------|--|---------|--|--|--|--|--|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |       |  |           | Mo/Hr: 7 / 18<br>OADBWB/HR: 32 / 19 / 9 |              |  |               |  | Mo/Hr: 7 / 19<br>OADB: 30 |  |              |  |               | Mo/Hr: Heating Design<br>OADB: -5 |             |  |              |  | SADB<br>Plenum<br>Return<br>Ret/OA<br>Fn MtrTD<br>Fn BidTD<br>Fn Frict |  |         |  |         | Cooling<br>12.8<br>24.9<br>25.8<br>25.8<br>0.2<br>0.4<br>1.1 |  |  |  |  | Heating<br>35.9<br>20.9<br>20.9<br>20.9<br>0.0<br>0.0<br>0.0 |  |  |  |  |
| Sens. + Lat.                    |  | Space |  | Plenum    |   | Net          |  | Percent       |  | Space                     |  | Percent      |  | Space Peak    |                                   | Coil Peak   |  | Percent      |  | SADB   |  | Cooling |  | Heating |  |  |  |  |  |  |  |  |  |  |
| kW                              |  | kW    |  | kW        |   | kW           |  | Of Total (%)  |  | Sensible kW               |  | Of Total (%) |  | Space Sens kW |                                   | Tot Sens kW |  | Of Total (%) |  | Return   |  | 25.8    |  | 20.9    |  |  |  |  |  |  |  |  |  |  |
| Envelope Loads                  |  |       |  |           |   |              |  |               |  |                           |  |              |  |               |                                   |             |  |              |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Skylite Solar                   |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  | Plenum   |  | 12.8    |  | 35.9    |  |  |  |  |  |  |  |  |  |  |
| Skylite Cond                    |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  | Return   |  | 24.9    |  | 20.9    |  |  |  |  |  |  |  |  |  |  |
| Roof Cond                       |  | 0.00  |  | 0.24      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | -0.14       |  | 0            |  | Ret/OA   |  | 25.8    |  | 20.9    |  |  |  |  |  |  |  |  |  |  |
| Glass Solar                     |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  | Fn MtrTD   |  | 0.2     |  | 0.0     |  |  |  |  |  |  |  |  |  |  |
| Glass Cond                      |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  | Fn BidTD   |  | 0.4     |  | 0.0     |  |  |  |  |  |  |  |  |  |  |
| Wall Cond                       |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  | Fn Frict   |  | 1.1     |  | 0.0     |  |  |  |  |  |  |  |  |  |  |
| Partition                       |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Exposed Floor                   |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Infiltration                    |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  | 0.00  |  | 0.24      |   | 0.24         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | -0.14       |  | 0            |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Internal Loads                  |  |       |  |           |   |              |  |               |  |                           |  |              |  |               |                                   |             |  |              |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Lights                          |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  | Vent   |  | 0       |  | 0       |  |  |  |  |  |  |  |  |  |  |
| People                          |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  | Infil  |  | 0       |  | 0       |  |  |  |  |  |  |  |  |  |  |
| Misc                            |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  | Supply   |  | 1       |  | 1       |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  | MinStop/Rh   |  | 1       |  | 1       |  |  |  |  |  |  |  |  |  |  |
| Ceiling Load                    |  | 0.01  |  | -0.01     |   | 0.00         |  | 0             |  | 0.01                      |  | 0            |  | -0.01         |                                   | 0           |  | 0            |  | Return   |  | 1       |  | 1       |  |  |  |  |  |  |  |  |  |  |
| Ventilation Load                |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  | Exhaust  |  | 0       |  | 0       |  |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat              |  | 0     |  | 0.00      |   | 0            |  | 0             |  | 0                         |  | 0            |  | 0             |                                   | 0           |  | 0            |  | Rm Exh   |  | 0       |  | 0       |  |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing              |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  | Auxil  |  | 0       |  | 0       |  |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing                  |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Exhaust Heat                    |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat                   |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat                   |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.00          |                                   | 0.00        |  | 0            |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup                  |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | -0.01         |                                   | 0.13        |  | 0            |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Reheat at Design                |  | 0.00  |  | 0.00      |   | 0.00         |  | 0             |  | 0.00                      |  | 0            |  | 0.13          |                                   | 0.13        |  | 0            |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Grand Total ==>                 |  | 0.01  |  | 0.23      |   | 0.24         |  | 100.00        |  | 0.01                      |  | 100.00       |  | -0.01         |                                   | -0.02       |  | 100.00       |  | No. People   |  | 0       |  | -3.42   |  |  |  |  |  |  |  |  |  |  |
| ENGINEERING CKS                 |  |       |  |           |   |              |  |               |  |                           |  |              |  |               |                                   |             |  |              |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| % OA                            |  | 0.0   |  | 0.0       |   | 0.0          |  | 0.0           |  | 0.0                       |  | 0.0          |  | 0.0           |                                   | 0.0         |  | 0.0          |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Lps/m²                          |  | 0.12  |  | 0.12      |   | 0.12         |  | 0.12          |  | 0.12                      |  | 0.12         |  | 0.12          |                                   | 0.12        |  | 0.12         |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Lps/kW                          |  | 2.18  |  | 2.18      |   | 2.18         |  | 2.18          |  | 2.18                      |  | 2.18         |  | 2.18          |                                   | 2.18        |  | 2.18         |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| m²/kW                           |  | 17.98 |  | 17.98     |   | 17.98        |  | 17.98         |  | 17.98                     |  | 17.98        |  | 17.98         |                                   | 17.98       |  | 17.98        |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| W/m²                            |  | 55.60 |  | 55.60     |   | 55.60        |  | 55.60         |  | 55.60                     |  | 55.60        |  | 55.60         |                                   | 55.60       |  | 55.60        |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| HEATING COIL SELECTION          |  |       |  |           |   |              |  |               |  |                           |  |              |  |               |                                   |             |  |              |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  | kW    |  | Sens Cap. |   | Coil Airflow |  | Enter DBWB/HR |  | Leave DBWB/HR             |  | Gross Total  |  | Glass         |                                   | Capacity    |  | Coil Airflow |  | Ent  |  | Lvg     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  | kW        |   | L/s          |  | °C            |  | °C                        |  |              |  | m²            |                                   | kW          |  | L/s          |  | °C   |  | °C      |  |         |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  | 0.25  |  | 0.25      |   | 1            |  | 25.8          |  | 16.6                      |  | 11.2         |  | 4             |                                   | 0.0         |  | 1            |  | 11.2   |  | 35.9    |  |         |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  | 0.00  |  | 0.00      |   | 0            |  | 0.0           |  | 0.0                       |  | 0.0          |  | 27            |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  | 0.00  |  | 0.00      |   | 0            |  | 0.0           |  | 0.0                       |  | 0.0          |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
| Total                           |  | 0.25  |  | 0.25      |   | 0            |  | 0.0           |  | 0.0                       |  | 0.0          |  | 4             |                                   | 0.0         |  | 1            |  | 11.2   |  | 24.0    |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  | 0             |                                   | 0.0         |  | 0            |  | 0.0  |  | 0.0     |  |         |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |  |           |   |              |  |               |  |                           |  |              |  |               |                                   |             |  |              |  |  |  |         |  |         |  |  |  |  |  |  |  |  |  |  |



CL0102 08 SUCIO EX 4/25

| COOLING COIL PEAK            |       |        |           | CLG SPACE PEAK         |                |                  |                    | HEATING COIL PEAK              |                    |                  |  |
|------------------------------|-------|--------|-----------|------------------------|----------------|------------------|--------------------|--------------------------------|--------------------|------------------|--|
| Peaked at Time: Outside Air: |       |        |           | Mo/Hr: 7 / 18 OADB: 30 |                |                  |                    | Mo/Hr: Heating Design OADB: -5 |                    |                  |  |
| Sens. + Lat.                 | Space | Plenum | Net Total | Percent Of Total       | Space Sensible | Percent Of Total | Envelope Loads     | Space Sens                     | Coil Peak Tot Sens | Percent Of Total |  |
|                              |       |        |           |                        |                |                  |                    |                                |                    |                  |  |
|                              | kW    | kW     | kW        | (%)                    | kW             | (%)              |                    | kW                             | kW                 | (%)              |  |
| Envelope Loads               |       |        |           |                        |                |                  |                    |                                |                    |                  |  |
| Skylite Solar                | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Skylite Solar      | 0.00                           | 0.00               | 0                |  |
| Skylite Cond                 | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Skylite Cond       | 0.00                           | 0.00               | 0                |  |
| Roof Cond                    | 0.00  | 0.36   | 0.36      | 0                      | 0.00           | 0                | Roof Cond          | 0.00                           | -0.20              | 0                |  |
| Glass Solar                  | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Glass Solar        | 0.00                           | 0.00               | 0                |  |
| Glass Cond                   | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Glass Cond         | 0.00                           | 0.00               | 0                |  |
| Wall Cond                    | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Wall Cond          | 0.00                           | 0.00               | 0                |  |
| Partition                    | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Partition          | 0.00                           | 0.00               | 0                |  |
| Exposed Floor                | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Exposed Floor      | 0.00                           | 0.00               | 0                |  |
| Infiltration                 | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Infiltration       | 0.00                           | 0.00               | 0                |  |
| Sub Total ==>                | 0.00  | 0.36   | 0.36      | 0                      | 0.00           | 0                | Sub Total ==>      | 0.00                           | -0.20              | 0                |  |
| Internal Loads               |       |        |           |                        |                |                  |                    |                                |                    |                  |  |
| Lights                       | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Lights             | 0.00                           | 0.00               | 0                |  |
| People                       | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | People             | 0.00                           | 0.00               | 0                |  |
| Misc                         | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Misc               | 0.00                           | 0.00               | 0                |  |
| Sub Total ==>                | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Sub Total ==>      | 0.00                           | 0.00               | 0                |  |
| Ceiling Load                 |       |        |           |                        |                |                  |                    |                                |                    |                  |  |
| Ventilation Load             | 0.01  | -0.01  | 0.00      | 0                      | 0.01           | 0                | Ceiling Load       | -0.01                          | 0                  | 0                |  |
| Adj Air Trans Heat           | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Ventilation Load   | 0.00                           | 0.00               | 0                |  |
| Dehumid. Ov Sizing           | 0     | 0      | 0         | 0                      | 0              | 0                | Adj Air Trans Heat | 0                              | 0                  | 0                |  |
| OvUndr Sizing                | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | OvUndr Sizing      | 0.00                           | 0.00               | 0                |  |
| Exhaust Heat                 | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Exhaust Heat       | 0.00                           | 0.00               | 0                |  |
| Sup. Fan Heat                | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | OA Preheat Diff.   | 0.00                           | 0.00               | 0                |  |
| Ret. Fan Heat                | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | RA Preheat Diff.   | 0.00                           | 0.00               | 0                |  |
| Duct Heat PkUp               | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Additional Reheat  | -0.02                          | 0                  | 0                |  |
| Reheat at Design             | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | System Plenum Heat | 0.19                           | 0                  | 0                |  |
| Grand Total ==>              | 0.01  | 0.35   | 0.36      | 100.00                 | 0.01           | 100.00           | Grand Total ==>    | -0.01                          | -0.03              | 100.00           |  |

| COOLING COIL SELECTION |           |              |       | HEATING COIL SELECTION |              |     |      |
|------------------------|-----------|--------------|-------|------------------------|--------------|-----|------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | Total Capacity         | Coil Airflow | Ent | Lvg  |
| kW                     | kW        | L/s          | °C    | kW                     | L/s          | °C  | °C   |
| Main Clg               | 0.36      | 1            | 25.8  | Main Htg               | 0.0          | 1   | 11.2 |
| Aux Clg                | 0.00      | 0            | 0.0   | Aux Htg                | 0.0          | 0   | 0.0  |
| Opt Vent               | 0.00      | 0            | 0.0   | Preheat                | 0.0          | 0   | 0.0  |
| Total                  | 0.36      |              |       | Reheat                 | 0.0          | 1   | 11.2 |
|                        |           |              |       | Humidif                | 0.0          | 0   | 0.0  |
|                        |           |              |       | Opt Vent               | 0.0          | 0   | 0.0  |
|                        |           |              |       | Total                  | 0.0          |     |      |

| ENGINEERING CKS |         |         |  |
|-----------------|---------|---------|--|
| % OA            | Cooling | Heating |  |
|                 | 0.0     | 0.0     |  |
| Lps/m²          | 0.12    | 0.12    |  |
| Lps/kW          | 2.18    |         |  |
| m²/kW           | 18.00   |         |  |
| W/m²            | 55.53   | -3.42   |  |
| No. People      |         | 0       |  |

| TEMPERATURES |         |         |  |
|--------------|---------|---------|--|
| SADB         | Cooling | Heating |  |
| Plenum       | 12.8    | 35.9    |  |
| Return       | 24.9    | 20.9    |  |
| Ret/OA       | 25.8    | 20.9    |  |
| Fn MtrTD     | 0.2     | 0.0     |  |
| Fn BidTD     | 0.4     | 0.0     |  |
| Fn Frict     | 1.1     | 0.0     |  |

| AIRFLOWS   |         |         |  |
|------------|---------|---------|--|
| Vent       | Cooling | Heating |  |
| Infil      | 0       | 0       |  |
| Supply     | 1       | 1       |  |
| MinStop/Rh | 1       | 1       |  |
| Return     | 1       | 1       |  |
| Exhaust    | 0       | 0       |  |
| Rm Exh     | 0       | 0       |  |
| Auxil      | 0       | 0       |  |

| AREAS       |       |     |   |
|-------------|-------|-----|---|
| Gross Total | Glass |     |   |
|             | m²    | (%) |   |
| Floor       | 7     |     |   |
| Part        | 32    |     |   |
| ExFlr       | 0     |     |   |
| Roof        | 7     | 0   | 0 |
| Wall        | 0     | 0   | 0 |



CL0102 09 PREPARACION/RECUPERACION

| COOLING COIL PEAK               |  |          |                 |          |  |             |              |               |             | CLG SPACE PEAK            |  |  |  |  | HEATING COIL PEAK                 |  |  |  |  | TEMPERATURES   |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|----------|-----------------|----------|--|-------------|--------------|---------------|-------------|---------------------------|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |          |                 |          | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |             |              |               |             | Mo/Hr: 7 / 19<br>OADB: 30 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB<br>Cooling<br>Heating                                     |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | Plenum<br>Return<br>Ret/OA<br>Fn MtrTD<br>Fn BidTD<br>Fn Frict |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.                    |  | Space    | Plenum          | Net      | Percent                                  | Space       | Percent      | Space Peak    | Coil Peak   | Percent                   |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.                    |  | Sens. kW | Sens. + Lat. kW | Total kW | Of Total (%)                             | Sensible kW | Of Total (%) | Space Sens kW | Tot Sens kW | Of Total (%)              |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Envelope Loads                  |  |          |                 |          |  |             |              |               |             | Envelope Loads            |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Solar                   |  |          |                 |          |  |             |              |               |             | Skylite Solar             |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Cond                    |  |          |                 |          |  |             |              |               |             | Skylite Cond              |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Roof Cond                       |  |          |                 |          |  |             |              |               |             | Roof Cond                 |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glass Solar                     |  |          |                 |          |  |             |              |               |             | Glass Solar               |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glass Cond                      |  |          |                 |          |  |             |              |               |             | Glass Cond                |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wall Cond                       |  |          |                 |          |  |             |              |               |             | Wall Cond                 |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Partition                       |  |          |                 |          |  |             |              |               |             | Partition                 |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exposed Floor                   |  |          |                 |          |  |             |              |               |             | Exposed Floor             |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Infiltration                    |  |          |                 |          |  |             |              |               |             | Infiltration              |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  |          |                 |          |  |             |              |               |             | Sub Total ==>             |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Internal Loads                  |  |          |                 |          |  |             |              |               |             | Internal Loads            |  |  |  |  |                                   |  |  |  |  | AIRFLOWS   |  |  |  |  |  |  |  |  |  |
| Lights                          |  |          |                 |          |  |             |              |               |             | Lights                    |  |  |  |  |                                   |  |  |  |  | Cooling  |  |  |  |  |  |  |  |  |  |
| People                          |  |          |                 |          |  |             |              |               |             | People                    |  |  |  |  |                                   |  |  |  |  | Heating  |  |  |  |  |  |  |  |  |  |
| Misc                            |  |          |                 |          |  |             |              |               |             | Misc                      |  |  |  |  |                                   |  |  |  |  | Vent   |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  |          |                 |          |  |             |              |               |             | Sub Total ==>             |  |  |  |  |                                   |  |  |  |  | Infil  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | Supply   |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | MinStop/Rh   |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | Return   |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | Exhaust  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | Rm Exh   |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | Auxil  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  | 0  |  |  |  |  |  |  |  |  |  |
|                                 |  |          |                 |          |  |             |              |               |             |                           |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



## Room Checksums

By GOC SA

## CL0102 10 PREPARACION

| COOLING COIL PEAK               |  |  |  |  |   |  |  |  |  | CLG SPACE PEAK            |  |  |  |  | HEATING COIL PEAK                 |  |  |  |  | TEMPERATURES   |  |  |  |  |   |  |  |  |  |                  |  |  |  |  |        |  |  |  |  |
|---------------------------------|--|--|--|--|---|--|--|--|--|---------------------------|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|---|--|--|--|--|------------------|--|--|--|--|--------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |  |  |  |  | Mo/Hr: 7 / 19<br>OADB: 30 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB<br>Plenum<br>Return<br>Ret/OA<br>Fn MtrTD<br>Fn BldTD<br>Fn Frict |  |  |  |  | Cooling<br>17.9<br>24.0<br>20.9<br>20.9<br>36.5<br>-4.9<br>0.2<br>0.0<br>0.4<br>1.1 |  |  |  |  |                  |  |  |  |  |        |  |  |  |  |
| Space Sens. + Lat.              |  |  |  |  | Plenum Sens. + Lat.                       |  |  |  |  | Net Total                 |  |  |  |  | Percent Of Total                  |  |  |  |  | Space Peak Space Sens  |  |  |  |  | Coil Peak Tot Sens  |  |  |  |  | Percent Of Total |  |  |  |  |        |  |  |  |  |
| kW                              |  |  |  |  | kW  |  |  |  |  | kW                        |  |  |  |  | %                                 |  |  |  |  | kW   |  |  |  |  | kW  |  |  |  |  | %                |  |  |  |  |        |  |  |  |  |
| Envelope Loads                  |  |  |  |  |   |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Envelope Loads   |  |  |  |  |   |  |  |  |  |                  |  |  |  |  |        |  |  |  |  |
| Skylite Solar                   |  |  |  |  | 0.00                                      |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Skylite Cond                    |  |  |  |  | 0.00                                      |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Roof Cond                       |  |  |  |  | 0.00                                      |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Glass Solar                     |  |  |  |  | 0.00                                      |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Glass Cond                      |  |  |  |  | 0.00                                      |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Wall Cond                       |  |  |  |  | 0.00                                      |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Partition                       |  |  |  |  | 0.00                                      |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Exposed Floor                   |  |  |  |  | 0.00                                      |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Infiltration                    |  |  |  |  | 0.00                                      |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.00                                      |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Internal Loads                  |  |  |  |  |   |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Internal Loads   |  |  |  |  |   |  |  |  |  |                  |  |  |  |  |        |  |  |  |  |
| Lights                          |  |  |  |  | 0.20                                      |  |  |  |  | 0.25                      |  |  |  |  | 16                                |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| People                          |  |  |  |  | 0.57                                      |  |  |  |  | 0.57                      |  |  |  |  | 23                                |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Misc                            |  |  |  |  | 0.70                                      |  |  |  |  | 0.70                      |  |  |  |  | 57                                |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 1.47                                      |  |  |  |  | 1.52                      |  |  |  |  | 97                                |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Ceiling Load                    |  |  |  |  |   |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Ceiling Load   |  |  |  |  |   |  |  |  |  |                  |  |  |  |  |        |  |  |  |  |
| Ventilation Load                |  |  |  |  | 0.03                                      |  |  |  |  | -0.03                     |  |  |  |  | 3                                 |  |  |  |  | -0.04  |  |  |  |  | 0   |  |  |  |  |                  |  |  |  |  |        |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | 0.00                                      |  |  |  |  | 3.64                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | -5.37   |  |  |  |  | 76               |  |  |  |  |        |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | 0   |  |  |  |  | 0                         |  |  |  |  | 0                                 |  |  |  |  | 0  |  |  |  |  | 0   |  |  |  |  |                  |  |  |  |  |        |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | 0.00                                      |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | -0.33                                     |  |  |  |  | -0.33                     |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.21  |  |  |  |  | -3               |  |  |  |  |        |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | 0.31                                      |  |  |  |  | 0.31                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | 0.18                                      |  |  |  |  | 0.18                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | 0.00  |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  | 0.00                                      |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00   |  |  |  |  | -1.62   |  |  |  |  | 23               |  |  |  |  |        |  |  |  |  |
| Reheat at Design                |  |  |  |  | 0.00                                      |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | -0.26  |  |  |  |  | -409.90   |  |  |  |  |                  |  |  |  |  |        |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | 1.50                                      |  |  |  |  | -0.13                     |  |  |  |  | 1.22                              |  |  |  |  | 100.00   |  |  |  |  | -0.04   |  |  |  |  | -7.04            |  |  |  |  | 100.00 |  |  |  |  |
| No. People                      |  |  |  |  |   |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | No. People   |  |  |  |  |   |  |  |  |  | No. People       |  |  |  |  |        |  |  |  |  |
| 4                               |  |  |  |  |   |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | 4  |  |  |  |  |   |  |  |  |  | 4                |  |  |  |  |        |  |  |  |  |
| ENGINEERING CKS                 |  |  |  |  |   |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | ENGINEERING CKS  |  |  |  |  |   |  |  |  |  | ENGINEERING CKS  |  |  |  |  |        |  |  |  |  |
| % OA                            |  |  |  |  | Cooling                                   |  |  |  |  | Heating                   |  |  |  |  | Cooling                           |  |  |  |  | Heating  |  |  |  |  | Cooling   |  |  |  |  | Heating          |  |  |  |  |        |  |  |  |  |
| 100.0                           |  |  |  |  | 100.0                                     |  |  |  |  | 100.0                     |  |  |  |  | 100.0                             |  |  |  |  | 100.0  |  |  |  |  | 100.0   |  |  |  |  | 100.0            |  |  |  |  |        |  |  |  |  |
| Lps/m²                          |  |  |  |  | 7.50                                      |  |  |  |  | 7.50                      |  |  |  |  | 7.50                              |  |  |  |  | 7.50   |  |  |  |  | 7.50  |  |  |  |  | 7.50             |  |  |  |  |        |  |  |  |  |
| Lps/kW                          |  |  |  |  | 31.74                                     |  |  |  |  | 31.74                     |  |  |  |  | 31.74                             |  |  |  |  | 31.74  |  |  |  |  | 31.74   |  |  |  |  | 31.74            |  |  |  |  |        |  |  |  |  |
| m²/kW                           |  |  |  |  | 4.23                                      |  |  |  |  | 4.23                      |  |  |  |  | 4.23                              |  |  |  |  | 4.23   |  |  |  |  | 4.23  |  |  |  |  | 4.23             |  |  |  |  |        |  |  |  |  |
| W/m²                            |  |  |  |  | 236.14                                    |  |  |  |  | 236.14                    |  |  |  |  | 236.14                            |  |  |  |  | 236.14   |  |  |  |  | 236.14  |  |  |  |  | 236.14           |  |  |  |  |        |  |  |  |  |
| No. People                      |  |  |  |  |   |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | No. People   |  |  |  |  |   |  |  |  |  | No. People       |  |  |  |  |        |  |  |  |  |
| 4                               |  |  |  |  |   |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | 4  |  |  |  |  |   |  |  |  |  | 4                |  |  |  |  |        |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |       |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-------|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent   |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C    |  |  |  |  |      |  |  |  |  |
| 5.49                   |  |  |  |  | 3.97      |  |  |  |  | 174                    |  |  |  |  | -1.6     |  |  |  |  | 174          |  |  |  |  | 15.9  |  |  |  |  | 24.0 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -4.2     |  |  |  |  | 174          |  |  |  |  | -4.9  |  |  |  |  | 16.3 |  |  |  |  |
| 5.49                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -1.6     |  |  |  |  | 174          |  |  |  |  | 15.9  |  |  |  |  | 24.0 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -3.7     |  |  |  |  | 174          |  |  |  |  | 0.5   |  |  |  |  | 8.1  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | Total     |  |  |  |  | Total                  |  |  |  |  | Total    |  |  |  |  | Total        |  |  |  |  | Total |  |  |  |  |      |  |  |  |  |



CL0102 11 PREPARACION

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK                   |          |          |          | HEATING COIL PEAK              |           |          |  |
|------------------------------|--------------|--------------|-------|----------------------------------|----------|----------|----------|--------------------------------|-----------|----------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |          |          |          | Mo/Hr: Heating Design OADB: -5 |           |          |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                            | Percent  | Percent  | Percent  | Space Peak                     | Coil Peak | Percent  |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible                         | Of Total | Of Total | Of Total | Space Sens                     | Tot Sens  | Of Total |  |
| kW                           | kW           | kW           | kW    | kW                               | (%)      | (%)      | (%)      | kW                             | kW        | (%)      |  |
| Envelope Loads               |              |              |       |                                  |          |          |          |                                |           |          |  |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Roof Cond                    | 0.00         | 0.09         | 0.09  | 0.00                             | 2        | 0        | 0        | 0.00                           | -0.19     | 3        |  |
| Glass Solar                  | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Cond                   | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Wall Cond                    | 0.02         | 0.00         | 0.02  | 0.05                             | 0        | 5        | 5        | -0.10                          | -0.12     | 2        |  |
| Partition                    | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Exposed Floor                | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 0.02         | 0.09         | 0.11  | 0.05                             | 2        | 5        | 5        | -0.10                          | -0.31     | 5        |  |
| Internal Loads               |              |              |       |                                  |          |          |          |                                |           |          |  |
| Lights                       | 0.17         | 0.04         | 0.21  | 0.17                             | 5        | 16       | 16       | 0.00                           | 0.00      | 0        |  |
| People                       | 0.47         | 0.00         | 0.47  | 0.24                             | 10       | 23       | 23       | 0.00                           | 0.00      | 0        |  |
| Misc                         | 0.58         | 0.00         | 0.58  | 0.58                             | 13       | 55       | 55       | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 1.22         | 0.04         | 1.26  | 0.99                             | 27       | 93       | 93       | 0.00                           | 0.00      | 0        |  |
| Ceiling Load                 |              |              |       |                                  |          |          |          |                                |           |          |  |
| Ventilation Load             | 0.03         | -0.03        | 0.00  | 0.02                             | 2        | 2        | 2        | -0.04                          | 0         | 0        |  |
| Adj Air Trans Heat           | 0.00         | 0.00         | 3.03  | 0.00                             | 66       | 0        | 0        | 0.00                           | -4.48     | 75       |  |
| Dehumid. Ov Sizing           | 0            | 0            | 0     | 0                                | 0        | 0        | 0        | 0                              | 0         | 0        |  |
| OvUndr Sizing                | 0.00         | -0.28        | 0.00  | 0.00                             | 2        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Exhaust Heat                 | 0.00         | -0.28        | -0.28 | 0.00                             | -6       | 0        | 0        | 0.18                           | 0.18      | -3       |  |
| Sup. Fan Heat                | 0.00         | 0.26         | 0.26  | 0.00                             | 6        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Ret. Fan Heat                | 0.00         | 0.15         | 0.15  | 0.00                             | 3        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Duct Heat PkUp               | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | -1.36                          | -1.36     | 23       |  |
| Reheat at Design             | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Grand Total ==>              | 1.27         | -0.03        | 4.60  | 1.06                             | 100.00   | 100.00   | 100.00   | -0.14                          | -5.97     | 100.00   |  |

| TEMPERATURES |      |         |         |
|--------------|------|---------|---------|
| SADB         | 17.6 | Cooling | Heating |
| Plenum       | 24.0 | 24.8    | 20.9    |
| Return       | 25.7 | 36.5    | -4.9    |
| Ret/OA       | 36.5 | 0.2     | 0.0     |
| Fn MtrTD     | 0.2  | 0.4     | 0.0     |
| Fn BidTD     | 0.4  | 1.1     | 0.0     |
| Fn Frict     | 1.1  |         |         |

| AIRFLOWS   |     |         |         |
|------------|-----|---------|---------|
| Vent       | 145 | Cooling | Heating |
| Infil      | 0   | 145     | 145     |
| Supply     | 145 | 0       | 0       |
| MinStop/Rh | 145 | 145     | 145     |
| Return     | 145 | 145     | 145     |
| Exhaust    | 145 | 145     | 145     |
| Rm Exh     | 0   | 0       | 0       |
| Auxil      | 0   | 0       | 0       |

| ENGINEERING CKS |        |         |         |
|-----------------|--------|---------|---------|
| % OA            | 100.0  | Cooling | Heating |
| Lps/m²          | 7.50   | 100.0   | 100.0   |
| Lps/kW          | 31.47  |         | 7.50    |
| m²/kW           | 4.20   |         |         |
| W/m²            | 238.17 |         | -408.09 |
| No. People      | 3      |         |         |

| COOLING COIL SELECTION |           |              |                |
|------------------------|-----------|--------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR |
| kW                     | kW        | L/s          | °C °C g/kg     |
| Main Clg               | 4.62      | 145          | 21.6 11.5      |
| Aux Clg                | 0.00      | 0.00         | 15.8 12.6      |
| Opt Vent               | 0.00      | 0            | 0.0 0.0        |
| Total                  | 4.62      |              |                |

| AREAS       |    | Glass |
|-------------|----|-------|
| Gross Total | m² | (%)   |
| Floor       | 19 |       |
| Part        | 49 |       |
| ExFlr       | 0  | 0     |
| Roof        | 19 | 0     |
| Wall        | 10 | 0     |

| HEATING COIL SELECTION |              |     |      |
|------------------------|--------------|-----|------|
| Capacity               | Coil Airflow | Ent | Lvg  |
| kW                     | L/s          | °C  | °C   |
| Main Htg               | -1.4         | 145 | 15.8 |
| Aux Htg                | 0.0          | 0   | 0.0  |
| Preheat                | -3.5         | 145 | -4.9 |
| Reheat                 | -1.4         | 145 | 15.8 |
| Humidif                | -3.1         | 145 | 0.5  |
| Opt Vent               | 0.0          | 0   | 0.0  |
| Total                  | -7.9         |     |      |



Room Checksums

By GOCSA

CL0103 01 QUIROFANO

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK         |          |          |          | HEATING COIL PEAK              |           |          |        |
|------------------------------|--------------|--------------|-------|------------------------|----------|----------|----------|--------------------------------|-----------|----------|--------|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 17 |          |          |          | Mo/Hr: Heating Design OADB: -5 |           |          |        |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                  | Percent  | Percent  | Percent  | Space Peak                     | Coil Peak | Percent  |        |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible               | Of Total | Of Total | Of Total | Space Sens                     | Tot Sens  | Of Total |        |
| kW                           | kW           | kW           | kW    | kW                     | (%)      | (%)      | (%)      | kW                             | kW        | (%)      |        |
| Envelope Loads               |              |              |       |                        |          |          |          |                                |           |          |        |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0      |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0      |
| Roof Cond                    | 0.00         | 0.11         | 0.11  | 0.00                   | 0        | 0        | 0        | 0.00                           | -0.43     | 2        | 2      |
| Glass Solar                  | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0      |
| Glass Cond                   | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0      |
| Wall Cond                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0      |
| Partition                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0      |
| Exposed Floor                | 0.04         | 0.04         | 0.04  | 0.05                   | 1        | 1        | 1        | -0.09                          | -0.09     | 0        | 0      |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0      |
| Sub Total ==>                | 0.04         | 0.11         | 0.15  | 0.05                   | 1        | 1        | 1        | -0.09                          | -0.52     | 2        | 2      |
| Internal Loads               |              |              |       |                        |          |          |          |                                |           |          |        |
| Lights                       | 0.84         | 0.00         | 0.84  | 0.84                   | 17       | 17       | 17       | 0.00                           | 0.00      | 0        | 0      |
| People                       | 0.79         | 0.00         | 0.79  | 0.44                   | 9        | 9        | 9        | 0.00                           | 0.00      | 0        | 0      |
| Misc                         | 3.50         | 0.00         | 3.50  | 3.50                   | 72       | 72       | 72       | 0.00                           | 0.00      | 0        | 0      |
| Sub Total ==>                | 5.13         | 0.00         | 5.13  | 4.78                   | 99       | 99       | 99       | 0.00                           | 0.00      | 0        | 0      |
| Ceiling Load                 |              |              |       |                        |          |          |          |                                |           |          |        |
| Ventilation Load             | 0.01         | -0.01        | 0.00  | 0.01                   | 0        | 0        | 0        | -0.04                          | 0         | 0        | 0      |
| Adj Air Trans Heat           | 0.00         | 0.00         | 17.65 | 0.00                   | 0        | 0        | 0        | 0.00                           | -20.82    | 76       | 76     |
| Dehumid. Ov Sizing           | 0            | 0            | 0     | 0                      | 0        | 0        | 0        | 0                              | 0         | 0        | 0      |
| OvUndr Sizing                | 0.00         | -0.80        | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0      |
| Exhaust Heat                 |              |              | -0.80 |                        | -3       |          |          | 0.39                           | 0.39      | -1       | -1     |
| Sup. Fan Heat                |              |              | 1.20  |                        | 5        |          |          | 0.00                           | 0.00      | 0        | 0      |
| Ret. Fan Heat                |              |              | 0.70  |                        | 3        |          |          | 0.00                           | 0.00      | 0        | 0      |
| Duct Heat PkUp               |              |              | 0.00  |                        | 0        |          |          | -6.27                          | -6.27     | 23       | 23     |
| Reheat at Design             |              |              | 0.00  |                        | 0        |          |          | 0.00                           | 0.00      | 0        | 0      |
| Grand Total ==>              | 5.18         | 0.00         | 24.53 | 4.84                   | 100.00   | 100.00   | 100.00   | -0.13                          | -27.22    | 100.00   | 100.00 |

| TEMPERATURES |      |         |         |
|--------------|------|---------|---------|
| SADB         | 15.8 | Cooling | Heating |
| Plenum       | 22.2 | 22.1    | 21.5    |
| Return       | 23.0 | 36.5    | -4.9    |
| Ret/OA       | 21.5 |         |         |
| Fn MtrTD     | 0.2  | 0.2     | 0.0     |
| Fn BidTD     | 0.4  | 0.4     | 0.0     |
| Fn Frict     | 1.1  | 1.1     | 0.0     |

| AIRFLOWS   |     |         |         |
|------------|-----|---------|---------|
| Vent       | 676 | Cooling | Heating |
| Infil      | 0   | 676     | 676     |
| Supply     | 676 | 676     | 676     |
| MinStop/Rh | 676 | 676     | 676     |
| Return     | 676 | 676     | 676     |
| Exhaust    | 676 | 676     | 676     |
| Rm Exh     | 0   | 0       | 0       |
| Auxil      | 0   | 0       | 0       |

| ENGINEERING CKS |        |         |         |
|-----------------|--------|---------|---------|
| % OA            | 100.0  | Cooling | Heating |
| Lps/m²          | 16.11  | 100.0   | 100.0   |
| Lps/kW          | 27.55  |         |         |
| m²/kW           | 1.71   |         |         |
| W/m²            | 584.33 |         | -844.19 |
| No. People      | 6      |         |         |

| COOLING COIL SELECTION |           |              |                |                |      |
|------------------------|-----------|--------------|----------------|----------------|------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR | Leave DB/WB/HR |      |
| kW                     | kW        | L/s          | °C             | °C             | g/kg |
| Main Clg               | 24.53     | 676          | 36.5           | 13.9           | 11.1 |
| Aux Clg                | 0.00      | 0            | 0.0            | 0.0            | 0.0  |
| Opt Vent               | 0.00      | 0            | 0.0            | 0.0            | 0.0  |
| Total                  | 24.53     |              |                |                |      |

| AREAS       |    | Glass |   |
|-------------|----|-------|---|
| Gross Total | m² | (%)   |   |
| Floor       | 42 |       |   |
| Part        | 82 |       |   |
| ExFlr       | 42 |       |   |
| Roof        | 42 | 0     | 0 |
| Wall        | 0  | 0     | 0 |

| HEATING COIL SELECTION |              |     |      |
|------------------------|--------------|-----|------|
| Capacity               | Coil Airflow | Ent | Lvg  |
| kW                     | L/s          | °C  | °C   |
| Main Htg               | -6.4         | 676 | 13.9 |
| Aux Htg                | 0.0          | 0   | 0.0  |
| Preheat                | -14.8        | 676 | -4.9 |
| Reheat                 | -6.3         | 676 | 13.9 |
| Humidif                | -14.3        | 676 | 0.5  |
| Opt Vent               | 0.0          | 0   | 0.0  |
| Total                  | -35.4        |     |      |



Room Checksums

By GOCSA

CL0104 01 QUIROFANO

| COOLING COIL PEAK            |  |           |              |       |       |          |          |       |          | CLG SPACE PEAK         |       |           |        | HEATING COIL PEAK              |        |              |      | TEMPERATURES |  |  |         |      |
|------------------------------|--|-----------|--------------|-------|-------|----------|----------|-------|----------|------------------------|-------|-----------|--------|--------------------------------|--------|--------------|------|--------------|--|--|---------|------|
| Peaked at Time: Outside Air: |  |           |              |       |       |          |          |       |          | Mo/Hr: 7 / 15 OADB: 18 |       |           |        | Mo/Hr: Heating Design OADB: -5 |        |              |      |              |  |  |         |      |
| Sens. + Lat.                 |  | Space     | Plenum       | Net   |       | Percent  | Space    |       | Percent  | Space Peak             |       | Coil Peak |        | SADB                           |        | Cooling      |      |              |  |  | Heating |      |
| Sens. + Lat.                 |  | kW        | kW           | Total | kW    | Of Total | Sensible | kW    | Of Total | Space Sens             | kW    | Tot Sens  | kW     | Plenum                         | Return | 22.1         | 22.5 |              |  |  | 21.5    | 21.5 |
|                              |  |           |              |       |       | (%)      |          |       | (%)      |                        |       |           |        |                                |        | 36.5         | 36.5 |              |  |  | -4.9    | -4.9 |
| Envelope Loads               |  |           |              |       |       |          |          |       |          |                        |       |           |        |                                |        |              |      |              |  |  | 0.0     | 0.0  |
| Skylite Solar                |  | 0.00      | 0.00         | 0.00  | 0.00  | 0        | 0.00     | 0.00  | 0        | 0.00                   | 0.00  | 0.00      | 0.00   | 0.00                           | 0.00   | 0.2          | 0.2  |              |  |  | 0.0     | 0.0  |
| Skylite Cond                 |  | 0.00      | 0.00         | 0.00  | 0.00  | 0        | 0.00     | 0.00  | 0        | 0.00                   | 0.00  | 0.00      | 0.00   | 0.00                           | 0.00   | 0.4          | 0.4  |              |  |  | 0.0     | 0.0  |
| Roof Cond                    |  | 0.00      | 0.11         | 0.11  | 0.00  | 0        | 0.00     | 0.00  | 0        | 0.00                   | 0.00  | -0.41     | 0.00   | 0.00                           | 0.00   | 1.1          | 1.1  |              |  |  | 0.0     | 0.0  |
| Glass Solar                  |  | 0.00      | 0.00         | 0.00  | 0.00  | 0        | 0.00     | 0.00  | 0        | 0.00                   | 0.00  | 0.00      | 0.00   | 0.00                           | 0.00   |              |      |              |  |  |         |      |
| Glass Cond                   |  | 0.00      | 0.00         | 0.00  | 0.00  | 0        | 0.00     | 0.00  | 0        | 0.00                   | 0.00  | 0.00      | 0.00   | 0.00                           | 0.00   |              |      |              |  |  |         |      |
| Wall Cond                    |  | 0.05      | 0.01         | 0.06  | 0.06  | 0        | 0.13     | 0.00  | 3        | -0.22                  | -0.22 | -0.24     | 0.00   | 0.00                           | 0.00   |              |      |              |  |  |         |      |
| Partition                    |  | 0.00      | 0.00         | 0.00  | 0.00  | 0        | 0.00     | 0.00  | 0        | 0.00                   | 0.00  | 0.00      | 0.00   | 0.00                           | 0.00   |              |      |              |  |  |         |      |
| Exposed Floor                |  | 0.05      | 0.05         | 0.05  | 0.05  | 0        | 0.06     | 0.06  | 1        | -0.11                  | -0.11 | -0.11     | 0.00   | 0.00                           | 0.00   |              |      |              |  |  |         |      |
| Infiltration                 |  | 0.00      | 0.00         | 0.00  | 0.00  | 0        | 0.00     | 0.00  | 0        | 0.00                   | 0.00  | 0.00      | 0.00   | 0.00                           | 0.00   |              |      |              |  |  |         |      |
| Sub Total ==>                |  | 0.10      | 0.12         | 0.22  | 0.22  | 1        | 0.19     | 0.19  | 4        | -0.33                  | -0.33 | -0.76     | 0.00   | 0.00                           | 0.00   |              |      |              |  |  |         |      |
| Internal Loads               |  |           |              |       |       |          |          |       |          |                        |       |           |        |                                |        |              |      |              |  |  |         |      |
| Lights                       |  | 0.80      | 0.00         | 0.80  | 0.80  | 3        | 0.80     | 0.80  | 16       | 0.00                   | 0.00  | 0.00      | 0.00   | 0.00                           | 0.00   |              |      |              |  |  |         |      |
| People                       |  | 0.79      | 0.00         | 0.79  | 0.79  | 3        | 0.44     | 0.44  | 9        | 0.00                   | 0.00  | 0.00      | 0.00   | 0.00                           | 0.00   |              |      |              |  |  |         |      |
| Misc                         |  | 3.50      | 0.00         | 3.50  | 3.50  | 15       | 3.50     | 3.50  | 71       | 0.00                   | 0.00  | 0.00      | 0.00   | 0.00                           | 0.00   |              |      |              |  |  |         |      |
| Sub Total ==>                |  | 5.09      | 0.00         | 5.09  | 5.09  | 22       | 4.74     | 4.74  | 96       | 0.00                   | 0.00  | 0.00      | 0.00   | 0.00                           | 0.00   |              |      |              |  |  |         |      |
| Ceiling Load                 |  | 0.01      | -0.01        | 0.00  | 0.00  | 0        | 0.01     | 0.01  | 0        | -0.04                  | -0.04 | 0         | 0      | 0                              | 0      |              |      |              |  |  |         |      |
| Ventilation Load             |  | 0.00      | 0.00         | 16.89 | 16.89 | 72       | 0.00     | 0.00  | 0        | 0.00                   | 0.00  | -19.92    | 75     | 0                              | 0      |              |      |              |  |  |         |      |
| Adj Air Trans Heat           |  | 0         | 0            | 0     | 0     | 0        | 0        | 0     | 0        | 0                      | 0     | 0         | 0      | 0                              | 0      |              |      |              |  |  |         |      |
| Dehumid. Ov Sizing           |  | 0.00      | 0.00         | 0.00  | 0.00  | 0        | 0.00     | 0.00  | 0        | 0.00                   | 0.00  | 0.00      | 0      | 0                              | 0      |              |      |              |  |  |         |      |
| Exhaust Heat                 |  | 0.00      | -0.77        | -0.77 | -0.77 | -3       | 0.00     | 0.00  | 0        | 0.00                   | 0.00  | 0.39      | -1     | 0                              | 0      |              |      |              |  |  |         |      |
| Sup. Fan Heat                |  | 0.00      | 1.15         | 1.15  | 1.15  | 5        | 0.00     | 0.00  | 0        | 0.00                   | 0.00  | 0.00      | 0      | 0                              | 0      |              |      |              |  |  |         |      |
| Ret. Fan Heat                |  | 0.00      | 0.67         | 0.67  | 0.67  | 3        | 0.00     | 0.00  | 0        | 0.00                   | 0.00  | 0.00      | 0      | 0                              | 0      |              |      |              |  |  |         |      |
| Duct Heat PkUp               |  | 0.00      | 0.00         | 0.00  | 0.00  | 0        | 0.00     | 0.00  | 0        | -6.12                  | -6.12 | 23        | 0      | 0                              | 0      |              |      |              |  |  |         |      |
| Reheat at Design             |  | 0.00      | 0.00         | 0.00  | 0.00  | 0        | 0.00     | 0.00  | 0        | 0.00                   | 0.00  | 0.00      | 0      | 0                              | 0      |              |      |              |  |  |         |      |
| Grand Total ==>              |  | 5.20      | 0.01         | 23.32 | 23.32 | 100.00   | 4.94     | 4.94  | 100.00   | -0.37                  | -0.37 | -26.41    | 100.00 |                                |        |              |      |              |  |  |         |      |
|                              |  |           |              |       |       |          |          |       |          |                        |       |           |        |                                |        |              |      |              |  |  |         |      |
| COOLING COIL SELECTION       |  |           |              |       |       |          |          |       |          | COOLING COIL SELECTION |       |           |        | HEATING COIL SELECTION         |        |              |      |              |  |  |         |      |
| Total Capacity               |  | Sens Cap. | Coil Airflow | Enter |       | DB/WB/HR |          | Leave |          | Gross Total            |       | Glass     |        | Capacity                       |        | Coil Airflow |      |              |  |  | Lvg     |      |
|                              |  | kW        | L/s          | °C    | °C    | °C       | g/kg     | °C    | °C       |                        |       | m²        |        | kW                             |        | L/s          |      |              |  |  | °C      |      |
| Main Clg                     |  | 23.31     | 16.77        | 36.5  | 21.6  | 11.5     | 8.0      | 13.7  | 11.2     | Floor                  |       |           |        | -6.5                           |        | 647          |      |              |  |  | 22.5    |      |
| Aux Clg                      |  | 0.00      | 0.00         | 0.0   | 0.0   | 0.0      | 0.0      | 0.0   | 0.0      | Part                   |       |           |        | 0.0                            |        | 0            |      |              |  |  | 0.0     |      |
| Opt Vent                     |  | 0.00      | 0.00         | 0.0   | 0.0   | 0.0      | 0.0      | 0.0   | 0.0      | ExFlr                  |       |           |        | -13.8                          |        | 647          |      |              |  |  | 13.8    |      |
| Total                        |  | 23.31     |              |       |       |          |          |       |          | Roof                   |       |           |        | -6.1                           |        | 647          |      |              |  |  | 22.0    |      |
|                              |  |           |              |       |       |          |          |       |          | Wall                   |       |           |        | -13.6                          |        | 647          |      |              |  |  | 8.1     |      |
|                              |  |           |              |       |       |          |          |       |          |                        |       |           |        | 0.0                            |        | 0            |      |              |  |  | 0.0     |      |
|                              |  |           |              |       |       |          |          |       |          | Total                  |       |           |        | -34.0                          |        |              |      |              |  |  |         |      |



Room Checksums

By GOCSA

CL0105 01 QUIROFANO

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK                   |          |       |          | HEATING COIL PEAK              |           |          |  |
|------------------------------|--------------|--------------|-------|----------------------------------|----------|-------|----------|--------------------------------|-----------|----------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |          |       |          | Mo/Hr: Heating Design OADB: -5 |           |          |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                            | Percent  | Space | Percent  | Space Peak                     | Coil Peak | Percent  |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible                         | Of Total | Total | Of Total | Space Sens                     | Tot Sens  | Of Total |  |
| kW                           | kW           | kW           | kW    | kW                               | (%)      | kW    | (%)      | kW                             | kW        | (%)      |  |
| Envelope Loads               |              |              |       |                                  |          |       |          |                                |           |          |  |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Roof Cond                    | 0.00         | 0.11         | 0.11  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | -0.41     | 2        |  |
| Glass Solar                  | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Cond                   | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Wall Cond                    | 0.05         | 0.01         | 0.06  | 0.13                             | 3        | 0.13  | 3        | -0.22                          | -0.24     | 1        |  |
| Partition                    | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exposed Floor                | 0.05         | 0.05         | 0.05  | 0.06                             | 1        | 0.06  | 1        | -0.11                          | -0.11     | 0        |  |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 0.10         | 0.12         | 0.22  | 0.19                             | 4        | 0.19  | 4        | -0.33                          | -0.76     | 3        |  |
| Internal Loads               |              |              |       |                                  |          |       |          |                                |           |          |  |
| Lights                       | 0.80         | 0.00         | 0.80  | 0.80                             | 16       | 0.80  | 16       | 0.00                           | 0.00      | 0        |  |
| People                       | 0.79         | 0.00         | 0.79  | 0.44                             | 9        | 0.44  | 9        | 0.00                           | 0.00      | 0        |  |
| Misc                         | 3.50         | 0.00         | 3.50  | 3.50                             | 71       | 3.50  | 71       | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 5.09         | 0.00         | 5.09  | 4.74                             | 96       | 4.74  | 96       | 0.00                           | 0.00      | 0        |  |
| Ceiling Load                 |              |              |       |                                  |          |       |          |                                |           |          |  |
| Ventilation Load             | 0.01         | -0.01        | 0.00  | 0.01                             | 0        | 0.01  | 0        | -0.04                          | 0         | 0        |  |
| Adj Air Trans Heat           | 0.00         | 0.00         | 16.89 | 0.00                             | 0        | 0.00  | 0        | 0.00                           | -19.92    | 75       |  |
| Dehumid. Ov Sizing           | 0            | 0            | 0     | 0                                | 0        | 0     | 0        | 0                              | 0         | 0        |  |
| OvUndr Sizing                | 0.00         | -0.77        | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exhaust Heat                 |              |              | -0.77 |                                  | -3       |       |          | 0.39                           | 0.39      | -1       |  |
| Sup. Fan Heat                |              |              | 1.15  |                                  | 5        |       |          | 0.00                           | 0.00      | 0        |  |
| Ret. Fan Heat                |              |              | 0.67  |                                  | 3        |       |          | 0.00                           | 0.00      | 0        |  |
| Duct Heat PkUp               |              |              | 0.00  |                                  | 0        |       |          | -6.12                          | -6.12     | 23       |  |
| Reheat at Design             |              |              | 0.00  |                                  | 0        |       |          | 0.00                           | 0.00      | 0        |  |
| Grand Total ==>              | 5.20         | 0.01         | 23.32 | 4.94                             | 100.00   | 23.32 | 100.00   | -0.37                          | -26.41    | 100.00   |  |

TEMPERATURES

|          |      |         |      |         |  |
|----------|------|---------|------|---------|--|
| SADB     | 15.3 | Cooling | 22.5 | Heating |  |
| Plenum   | 22.1 |         | 21.5 |         |  |
| Return   | 23.0 |         | 21.5 |         |  |
| Ret/OA   | 36.5 |         | -4.9 |         |  |
| Fn MtrTD | 0.2  |         | 0.0  |         |  |
| Fn BidTD | 0.4  |         | 0.0  |         |  |
| Fn Frict | 1.1  |         | 0.0  |         |  |

AIRFLOWS

|            |     |         |     |         |     |
|------------|-----|---------|-----|---------|-----|
| Vent       | 647 | Cooling | 647 | Heating | 647 |
| Infil      | 0   |         | 0   |         | 0   |
| Supply     | 647 |         | 647 |         | 647 |
| MinStop/Rh | 647 |         | 647 |         | 647 |
| Return     | 647 |         | 647 |         | 647 |
| Exhaust    | 647 |         | 647 |         | 647 |
| Rm Exh     | 0   |         | 0   |         | 0   |
| Auxil      | 0   |         | 0   |         | 0   |

ENGINEERING CKS

|        |        |         |        |         |         |
|--------|--------|---------|--------|---------|---------|
| % OA   | 100.0  | Cooling | 100.0  | Heating | 100.0   |
| Lps/m² | 16.11  |         | 16.11  |         | 16.11   |
| Lps/kW | 27.74  |         | 27.74  |         |         |
| m²/kW  | 1.72   |         | 1.72   |         |         |
| W/m²   | 580.32 |         | 580.32 |         | -845.68 |

No. People

6

COOLING COIL SELECTION

| Total Capacity | Sens Cap. | Coil Airflow | Enter | DB/WB/HR | Leave | DB/WB/HR |
|----------------|-----------|--------------|-------|----------|-------|----------|
| kW             | kW        | L/s          | °C    | °C g/kg  | °C    | °C g/kg  |
| Main Clg       | 23.31     | 16.77        | 36.5  | 21.6     | 13.7  | 11.2     |
| Aux Clg        | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      |
| Opt Vent       | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      |
| Total          | 23.31     |              |       |          |       |          |

AREAS

| Gross Total | Glass | (%) |
|-------------|-------|-----|
| m²          |       |     |
| Floor       | 40    |     |
| Part        | 59    |     |
| ExFlr       | 40    |     |
| Roof        | 40    | 0   |
| Wall        | 20    | 0   |

HEATING COIL SELECTION

| Capacity | Coil Airflow | Ent | Lvg  |
|----------|--------------|-----|------|
| kW       | L/s          | °C  | °C   |
| Main Htg | -6.5         | 647 | 13.7 |
| Aux Htg  | 0.0          | 0   | 0.0  |
| Preheat  | -13.8        | 647 | -4.9 |
| Reheat   | -6.1         | 647 | 13.7 |
| Humidif  | -13.6        | 647 | 0.5  |
| Opt Vent | 0.0          | 0   | 0.0  |
| Total    | -34.0        |     |      |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums reported as 8888 of 194



CL0201 01 SALIDA ESTERIL

| COOLING COIL PEAK  |  |              |              |       |                         |          |          |            |           | CLG SPACE PEAK |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |         |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|--------------------|--|--------------|--------------|-------|-------------------------|----------|----------|------------|-----------|----------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|---------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |              |              |       | Mo/Hr: 7 / 15           |          |          |            |           | Mo/Hr: 7 / 22  |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | Cooling           |  |  |  |  | Heating |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |              |              |       | OADBWB/HR: 36 / 22 / 11 |          |          |            |           | OADB: 24       |  |  |  |  | OADB: -5              |  |  |  |  | SADB              |  |  |  |  | Plenum  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  | Space        | Plenum       | Net   | Percent                 | Space    | Percent  | Space Peak | Coil Peak | Percent        |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  | Sens. + Lat. | Sens. + Lat. | Total | Of Total                | Sensible | Of Total | Space Sens | Tot Sens  | Of Total       |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  | Sens. + Lat. | Sens. + Lat. | kW    | (%)                     | kW       | (%)      | kW         | kW        | (%)            |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Envelope Loads        |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Skylite Solar         |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Skylite Cond          |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Roof Cond             |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Glass Solar           |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Glass Cond            |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Partition          |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Wall Cond             |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Partition             |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Exposed Floor         |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Infiltration          |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Sub Total ==>         |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Internal Loads        |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Lights             |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Lights                |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| People             |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | People                |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Misc               |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Misc                  |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Sub Total ==>         |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Ceiling Load          |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Ventilation Load      |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Adj Air Trans Heat    |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Dehumid. Ov Sizing    |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Ov/Undr Sizing        |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Exhaust Heat          |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | OA Preheat Diff.      |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | RA Preheat Diff.      |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Additional Reheat     |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | System Plenum Heat    |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  | Grand Total ==>       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                    |  |              |              |       |                         |          |          |            |           |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |



Room Checksums

By GOCSA

CL0201 02 ZONA EMPAQUETADO

| COOLING COIL PEAK            |                    |       |                     | CLG SPACE PEAK                        |                |                  |                    | HEATING COIL PEAK              |        |                    |                  | TEMPERATURES   |                             |                             |  |
|------------------------------|--------------------|-------|---------------------|---------------------------------------|----------------|------------------|--------------------|--------------------------------|--------|--------------------|------------------|--|-----------------------------|-----------------------------|--|
| Peaked at Time: Outside Air: |                    |       |                     | Mo/Hr: 7 / 15 OADBWB/Hr: 36 / 22 / 11 |                |                  |                    | Mo/Hr: Heating Design OADB: -5 |        |                    |                  |  |                             |                             |  |
| Envelope Loads               | Space Sens. + Lat. |       | Plenum Sens. + Lat. | Net Total                             | Space Sensible | Percent Of Total | Envelope Loads     | Space Peak Space Sens          |        | Coil Peak Tot Sens | Percent Of Total | SADB Plenum Return Ret/OA Fn MtrTD Fn BidTD Fn Frict | Cooling Heating             |                             |  |
|                              | kW                 | kW    | kW                  | kW                                    | (%)            | kW               |                    | kW                             | kW     | (%)                |                  |  |                             |                             |  |
| Skylite Solar                | 0.00               |       | 0.00                | 0.00                                  | 0.00           | 0                | Skylite Solar      | 0.00                           | 0.00   | 0.00               | 0                |  | 19.2                        | 24.0                        |  |
| Skylite Cond                 | 0.00               |       | 0.00                | 0.00                                  | 0.00           | 0                | Skylite Cond       | 0.00                           | 0.00   | 0.00               | 0                |  | 24.1                        | 22.0                        |  |
| Roof Cond                    | 0.00               |       | 0.00                | 0.00                                  | 0.00           | 0                | Roof Cond          | 0.00                           | 0.00   | 0.00               | 0                |  | 25.1                        | 22.0                        |  |
| Glass Solar                  | 0.00               |       | 0.00                | 0.00                                  | 0.00           | 0                | Glass Solar        | 0.00                           | 0.00   | 0.00               | 0                |  | 36.5                        | -4.9                        |  |
| Glass Cond                   | 0.00               |       | 0.00                | 0.00                                  | 0.00           | 0                | Glass Cond         | 0.00                           | 0.00   | 0.00               | 0                |  | 0.2                         | 0.0                         |  |
| Wall Cond                    | 0.00               |       | 0.00                | 0.00                                  | 0.00           | 0                | Wall Cond          | 0.00                           | 0.00   | 0.00               | 0                |  | 0.4                         | 0.0                         |  |
| Partition                    | 0.00               |       | 0.00                | 0.00                                  | 0.02           | 0                | Partition          | -0.07                          | -0.07  | -0.07              | 0                |  | 1.1                         | 0.0                         |  |
| Exposed Floor                | -0.07              |       | 0.00                | -0.07                                 | -0.07          | -1               | Exposed Floor      | -1.90                          | -1.90  | -1.90              | 4                |  |                             |                             |  |
| Infiltration                 | 0.00               |       | 0.00                | 0.00                                  | 0.00           | 0                | Infiltration       | 0.00                           | 0.00   | 0.00               | 0                |  |                             |                             |  |
| Sub Total ==>                | -0.07              | 0.00  | -0.07               | -0.07                                 | -0.05          | -1               | Sub Total ==>      | -1.97                          | -1.97  | -1.97              | 4                |  |                             |                             |  |
| Internal Loads               |                    |       |                     |                                       |                |                  |                    |                                |        |                    |                  | AIRFLOWS   |                             |                             |  |
| Lights                       | 0.89               | 0.22  | 1.11                | 3                                     | 0.89           | 14               | Lights             | 0.00                           | 0.00   | 0.00               | 0                | Vent   | Cooling                     | Heating                     |  |
| People                       | 0.79               |       | 0.79                | 2                                     | 0.44           | 7                | People             | 0.00                           | 0.00   | 0.00               | 0                | Infil  | 1,137                       | 1,137                       |  |
| Misc                         | 5.00               | 0.00  | 5.00                | 14                                    | 5.00           | 79               | Misc               | 0.00                           | 0.00   | 0.00               | 0                | Supply   | 0                           | 0                           |  |
| Sub Total ==>                | 6.68               | 0.22  | 6.90                | 19                                    | 6.33           | 100              | Sub Total ==>      | 0.00                           | 0.00   | 0.00               | 0                | MinStop/Rh Return Exhaust Rm Exh Auxil               | 1,137 1,137 1,137 1,137 0 0 | 1,137 1,137 1,137 1,137 0 0 |  |
| Ceiling Load                 |                    |       |                     |                                       |                |                  |                    |                                |        |                    |                  | ENGINEERING CKS                                      |                             |                             |  |
| Ventilation Load             | 0.03               | -0.03 | 0.00                | 0                                     | 0.03           | 0                | Ceiling Load       | 0.00                           | 0.00   | 0                  | 0                | % OA   | Cooling                     | Heating                     |  |
| Adj Air Trans Heat           | 0                  | 0.00  | 26.98               | 76                                    | 0.00           | 0                | Ventilation Load   | 0.00                           | 0.00   | -35.00             | 77               |  | 100.0                       | 100.0                       |  |
| Dehumid. Ov Sizing           |                    |       | 0                   | 0                                     | 0              | 0                | Adj Air Trans Heat | 0                              | 0      | 0                  | 0                |  |                             |                             |  |
| Ov/Undr Sizing               | 0.00               |       | 0.00                | 0                                     | 0.00           | 0                | Ov/Undr Sizing     | 0.00                           | 0.00   | 0.00               | 0                |  |                             |                             |  |
| Exhaust Heat                 |                    | -1.36 | -1.36               | -4                                    |                |                  | Exhaust Heat       | 0.02                           | 0.02   | 0.02               | 0                | Lps/m²   | 11.25                       | 11.25                       |  |
| Sup. Fan Heat                |                    | 2.01  | 2.01                | 6                                     |                |                  | OA Preheat Diff.   | 0.00                           | 0.00   | 0.00               | 0                | Lps/kW   | 31.88                       |                             |  |
| Ret. Fan Heat                |                    | 1.18  | 1.18                | 3                                     |                |                  | RA Preheat Diff.   | 0.00                           | 0.00   | 0.00               | 0                |  |                             |                             |  |
| Duct Heat Pkup               |                    | 0.00  | 0.00                | 0                                     |                |                  | Additional Reheat  | -8.32                          | -8.32  | -8.32              | 18               | m²/kW  | 2.83                        |                             |  |
| Reheat at Design             |                    |       | 0.00                | 0                                     |                |                  | System Plenum Heat | -0.03                          | -0.03  | -0.03              | 0                | W/m²   | 352.70                      | -580.66                     |  |
| Grand Total ==>              | 6.64               | 0.01  | 35.64               | 100.00                                | 6.31           | 100.00           | Grand Total ==>    | -1.97                          | -45.30 | -45.30             | 100.00           | No. People   |                             | 6                           |  |

| TEMPERATURES |      |         |      |
|--------------|------|---------|------|
| SADB         | 19.2 | Cooling | 24.0 |
| Plenum       | 24.1 | Heating | 22.0 |
| Return       | 25.1 |         | 22.0 |
| Ret/OA       | 36.5 |         | -4.9 |
| Fn MtrTD     | 0.2  |         | 0.0  |
| Fn BidTD     | 0.4  |         | 0.0  |
| Fn Frict     | 1.1  |         | 0.0  |

| AIRFLOWS   |       |         |       |
|------------|-------|---------|-------|
| Vent       | 1,137 | Cooling | 1,137 |
| Infil      | 0     | Heating | 1,137 |
| Supply     | 1,137 |         | 0     |
| MinStop/Rh | 1,137 |         | 1,137 |
| Return     | 1,137 |         | 1,137 |
| Exhaust    | 1,137 |         | 1,137 |
| Rm Exh     | 0     |         | 0     |
| Auxil      | 0     |         | 0     |

| ENGINEERING CKS |        |         |         |
|-----------------|--------|---------|---------|
| % OA            | 100.0  | Cooling | 100.0   |
| Lps/m²          | 11.25  | Heating | 100.0   |
| Lps/kW          | 31.88  |         |         |
| m²/kW           | 2.83   |         |         |
| W/m²            | 352.70 |         | -580.66 |
| No. People      | 6      |         |         |

| COOLING COIL SELECTION |              |                  |          |                           |
|------------------------|--------------|------------------|----------|---------------------------|
| Total Capacity kW      | Sens Cap. kW | Coil Airflow L/s | Enter °C | Leave DB/WB/HR °C °C g/kg |
| 35.65                  | 24.57        | 1,137            | 36.5     | 17.6 12.8 8.1             |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0 0.0 0.0               |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0 0.0 0.0               |
| 35.65                  |              |                  |          |                           |
| Main Clg               |              |                  |          |                           |
| Aux Clg                |              |                  |          |                           |
| Opt Vent               |              |                  |          |                           |
| Total                  |              |                  |          |                           |

| AREAS       |     | Glass m² | (%) |
|-------------|-----|----------|-----|
| Gross Total |     |          |     |
| Floor       | 101 |          |     |
| Part        | 150 |          |     |
| ExFlr       | 101 |          |     |
| Roof        | 0   | 0        | 0   |
| Wall        | 0   | 0        | 0   |
| Total       |     |          |     |

| HEATING COIL SELECTION |                  |        |        |
|------------------------|------------------|--------|--------|
| Capacity kW            | Coil Airflow L/s | Ent °C | Lvg °C |
| -8.3                   | 1,137            | 17.6   | 24.0   |
| 0.0                    | 0                | 0.0    | 0.0    |
| -29.3                  | 1,137            | -4.9   | 17.6   |
| -8.3                   | 1,137            | 17.6   | 24.0   |
| -21.1                  | 1,137            | 0.5    | 7.2    |
| 0.0                    | 0                | 0.0    | 0.0    |
| Total                  | -58.7            |        |        |



Room Checksums

By GOCSA

CL0201 03 ESCLUSA EX 4/25

| COOLING COIL PEAK            |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK                          |  |  |  | HEATING COIL PEAK                 |  |  |  | TEMPERATURES               |  |  |  |
|------------------------------|--|--|--|--|--|--|--|--|--|---|--|--|--|-----------------------------------|--|--|--|----------------------------|--|--|--|
| Peaked at Time: Outside Air: |  |  |  |  |  |  |  |  |  | Mo/Hr: 7 / 21<br>OADBWB/Hr: 25 / 14 / 6 |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  | SADB<br>Cooling<br>Heating |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  | Plenum<br>24.1<br>22.0     |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  | Return<br>25.1<br>22.0     |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  | Ret/OA<br>25.1<br>22.0     |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  | Fn MtrTD<br>0.2<br>0.0     |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  | Fn BidTD<br>0.4<br>0.0     |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  | Fn Frict<br>1.1<br>0.0     |  |  |  |
| Envelope Loads               |  |  |  |  |  |  |  |  |  | Envelope Loads                          |  |  |  |                                   |  |  |  |                            |  |  |  |
| Skylite Solar                |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
| Skylite Cond                 |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
| Roof Cond                    |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
| Glass Solar                  |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
| Glass Cond                   |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
| Wall Cond                    |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
| Partition                    |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
| Exposed Floor                |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | -0.14                             |  |  |  | 0                          |  |  |  |
| Infiltration                 |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | -0.09                             |  |  |  | 0                          |  |  |  |
| Sub Total ==>                |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
| Internal Loads               |  |  |  |  |  |  |  |  |  | Internal Loads                          |  |  |  |                                   |  |  |  |                            |  |  |  |
| Lights                       |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
| People                       |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
| Misc                         |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
| Sub Total ==>                |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | -0.23                             |  |  |  | 0                          |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
| Ceiling Load                 |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
| Ventilation Load             |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
| Adj Air Trans Heat           |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0                                 |  |  |  | 0                          |  |  |  |
| Dehumid. Ov Sizing           |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 0.0                        |  |  |  |
| Ov/Undr Sizing               |  |  |  |  |  |  |  |  |  | 0.05                                    |  |  |  | 0.00                              |  |  |  | 1.40                       |  |  |  |
| Exhaust Heat                 |  |  |  |  |  |  |  |  |  | 0                                       |  |  |  | 0.00                              |  |  |  | 1.40                       |  |  |  |
| Sup. Fan Heat                |  |  |  |  |  |  |  |  |  | 0.01                                    |  |  |  | 0.00                              |  |  |  | 64.63                      |  |  |  |
| Ret. Fan Heat                |  |  |  |  |  |  |  |  |  | 0.01                                    |  |  |  | 0.00                              |  |  |  | 0                          |  |  |  |
| Duct Heat PkUp               |  |  |  |  |  |  |  |  |  | 0.00                                    |  |  |  | -0.19                             |  |  |  | 46.05                      |  |  |  |
| Reheat at Design             |  |  |  |  |  |  |  |  |  | 0.00                                    |  |  |  | 0.00                              |  |  |  | 21.71                      |  |  |  |
| Grand Total ==>              |  |  |  |  |  |  |  |  |  | 0.11                                    |  |  |  | -0.23                             |  |  |  | 0                          |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |
|                              |  |  |  |  |  |  |  |  |  |   |  |  |  |                                   |  |  |  |                            |  |  |  |



## Room Checksums

By GOC SA

**CL0201 04 ALMACEN ESTERIL**

| COOLING COIL PEAK            |  |          |                    |              |  |                      |                   |                      |                | CLG SPACE PEAK                   |                          |                       |                      | HEATING COIL PEAK                                    |       |   |   | TEMPERATURES                   |  |  |  |
|------------------------------|--|----------|--------------------|--------------|--|----------------------|-------------------|----------------------|----------------|----------------------------------|--------------------------|-----------------------|----------------------|--|-------|---|---|--------------------------------|--|--|--|
| Peaked at Time: Outside Air: |  |          |                    |              |  |                      |                   |                      |                | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |                          |                       |                      | Mo/Hr: 7 / 14 OADB: 36                               |       |   |   | Mo/Hr: Heating Design OADB: -5 |  |  |  |
| Sens. + Lat.                 |  | Space kW | Plenum Sens. + Lat | Net Total kW |  | Percent Of Total (%) | Space Sensible kW | Percent Of Total (%) | Envelope Loads |                                  | Space Peak Space Sens kW | Coil Peak Tot Sens kW | Percent Of Total (%) | SADB Plenum Return Ret/OA Fm MtrTD Fm BidTD Fm Frict |       | Cooling 20.9 24.1 25.1 36.5 0.2 0.4 1.1 | Heating 24.0 22.0 22.0 -4.9 0.0 0.0 0.0 |                                |  |  |  |
| Envelope Loads               |  |          |                    |              |  |                      |                   |                      |                | Skylite Solar                    |                          | 0.00                  | 0                    | 0.00   | 0     |   |   |                                |  |  |  |
| Skylite Cond                 |  |          |                    |              |  |                      |                   |                      |                | 0.00                             | 0                        | 0.00                  | 0                    | 0.00   | 0     |   |   |                                |  |  |  |
| Roof Cond                    |  |          |                    |              |  |                      |                   |                      |                | 0.00                             | 0                        | 0.00                  | 0                    | 0.00   | 0     |   |   |                                |  |  |  |
| Glass Solar                  |  |          |                    |              |  |                      |                   |                      |                | 0.52                             | 9                        | 0.60                  | 57                   | 0.00   | 0.00  | 0                                       |   |                                |  |  |  |
| Glass Cond                   |  |          |                    |              |  |                      |                   |                      |                | 0.04                             | 1                        | 0.04                  | 4                    | -0.15  | -0.15 | 1                                       |   |                                |  |  |  |
| Wall Cond                    |  |          |                    |              |  |                      |                   |                      |                | 0.03                             | 1                        | 0.03                  | 3                    | -0.14  | -0.18 | 2                                       |   |                                |  |  |  |
| Partition                    |  |          |                    |              |  |                      |                   |                      |                | -0.01                            | 0                        | -0.04                 | -4                   | -0.34  | -0.34 | 3                                       |   |                                |  |  |  |
| Exposed Floor                |  |          |                    |              |  |                      |                   |                      |                | 0.00                             | 0                        | 0.00                  | 0                    | 0.00   | 0.00  | 0                                       |   |                                |  |  |  |
| Infiltration                 |  |          |                    |              |  |                      |                   |                      |                | 0.00                             | 0                        | 0.00                  | 0                    | 0.00   | 0.00  | 0                                       |   |                                |  |  |  |
| Sub Total ==>                |  |          |                    |              |  |                      |                   |                      |                | 0.58                             | 10                       | 0.59                  | 60                   | -0.63  | -0.67 | 6                                       |   |                                |  |  |  |
| Internal Loads               |  |          |                    |              |  |                      |                   |                      |                | Lights                           |                          | 0.14                  | 13                   | 0.00   | 0.00  | 0                                       |   |                                |  |  |  |
| People                       |  |          |                    |              |  |                      |                   |                      |                | 0.49                             | 8                        | 0.27                  | 26                   | 0.00   | 0.00  | 0                                       |   |                                |  |  |  |
| Misc                         |  |          |                    |              |  |                      |                   |                      |                | 0.00                             | 0                        | 0.00                  | 0                    | 0.00   | 0.00  | 0                                       |   |                                |  |  |  |
| Sub Total ==>                |  |          |                    |              |  |                      |                   |                      |                | 0.63                             | 11                       | 0.67                  | 39                   | 0.00   | 0.00  | 0                                       |   |                                |  |  |  |
| Ceiling Load                 |  |          |                    |              |  |                      |                   |                      |                | 0.01                             | 0                        | 0.01                  | 1                    | 0.00   | 0     | 0                                       |   |                                |  |  |  |
| Ventilation Load             |  |          |                    |              |  |                      |                   |                      |                | 0.00                             | 0                        | 0.00                  | 0                    | 0.00   | -8.92 | 80                                      |   |                                |  |  |  |
| Adj Air Trans Heat           |  |          |                    |              |  |                      |                   |                      |                | 0                                | 0                        | 0                     | 0                    | 0  | 0     | 0                                       |   |                                |  |  |  |
| Dehumid. Ov Sizing           |  |          |                    |              |  |                      |                   |                      |                | 0.00                             | 0                        | 0.00                  | 0                    | 0.00   | 0.00  | 0                                       |   |                                |  |  |  |
| Ov/Undr Sizing               |  |          |                    |              |  |                      |                   |                      |                | -0.35                            | -6                       |                       |                      | 0.01   | 0.01  | 0                                       |   |                                |  |  |  |
| Exhaust Heat                 |  |          |                    |              |  |                      |                   |                      |                |                                  | 9                        | 0.51                  |                      | 0.00   | 0.00  | 0                                       |   |                                |  |  |  |
| Sup. Fan Heat                |  |          |                    |              |  |                      |                   |                      |                |                                  | 5                        | 0.30                  |                      | 0.00   | 0.00  | 0                                       |   |                                |  |  |  |
| Ret. Fan Heat                |  |          |                    |              |  |                      |                   |                      |                |                                  | 0                        |                       |                      |  |       |   |   |                                |  |  |  |
| Duct Heat PkUp               |  |          |                    |              |  |                      |                   |                      |                |                                  | 0                        | 0.00                  |                      | -1.56  | -1.56 | 14                                      |   |                                |  |  |  |
| Reheat at Design             |  |          |                    |              |  |                      |                   |                      |                |                                  | 0                        | 0.00                  |                      | 0.03   | 0     | 0                                       |   |                                |  |  |  |
| Grand Total ==>              |  |          |                    |              |  |                      |                   |                      |                | 1.22                             |                          | -0.01                 | 5.96                 | 100.00   | -0.63 | -11.11                                  | 100.00                                  | No. People 3                   |  |  |  |
| ENGINEERING CKS              |  |          |                    |              |  |                      |                   |                      |                | % OA                             |                          | Cooling 100.0         |                      | Heating 100.0  |       |   |   |                                |  |  |  |
| Lps/m²                       |  |          |                    |              |  |                      |                   |                      |                | 11.25                            |                          | 11.25                 |                      | 11.25  |       |   |   |                                |  |  |  |
| Lps/kW                       |  |          |                    |              |  |                      |                   |                      |                | 48.58                            |                          | 48.58                 |                      | 48.58  |       |   |   |                                |  |  |  |
| m²/kW                        |  |          |                    |              |  |                      |                   |                      |                | 4.32                             |                          | 4.32                  |                      | 4.32   |       |   |   |                                |  |  |  |
| W/m²                         |  |          |                    |              |  |                      |                   |                      |                | 231.43                           |                          | 231.43                |                      | -580.66  |       |   |   |                                |  |  |  |
| AIRFLOWS                     |  |          |                    |              |  |                      |                   |                      |                | Vent                             |                          | Cooling 290           |                      | Heating 290  |       |   |   |                                |  |  |  |
| Infil                        |  |          |                    |              |  |                      |                   |                      |                | 0                                |                          | 0                     |                      | 0  |       | 0                                       |   |                                |  |  |  |
| Supply                       |  |          |                    |              |  |                      |                   |                      |                | 290                              |                          | 290                   |                      | 290  |       | 290                                     |   |                                |  |  |  |
| MinStop/Rh                   |  |          |                    |              |  |                      |                   |                      |                | 290                              |                          | 290                   |                      | 290  |       | 290                                     |   |                                |  |  |  |
| Return                       |  |          |                    |              |  |                      |                   |                      |                | 290                              |                          | 290                   |                      | 290  |       | 290                                     |   |                                |  |  |  |
| Exhaust                      |  |          |                    |              |  |                      |                   |                      |                | 0                                |                          | 0                     |                      | 0  |       | 0                                       |   |                                |  |  |  |
| Rm Exh                       |  |          |                    |              |  |                      |                   |                      |                | 0                                |                          | 0                     |                      | 0  |       | 0                                       |   |                                |  |  |  |
| Auxil                        |  |          |                    |              |  |                      |                   |                      |                | 0                                |                          | 0                     |                      | 0  |       | 0                                       |   |                                |  |  |  |
| TEMPERATURES                 |  |          |                    |              |  |                      |                   |                      |                | SADB                             |                          | Cooling 20.9          |                      | Heating 24.0   |       |   |   |                                |  |  |  |
| Plenum                       |  |          |                    |              |  |                      |                   |                      |                | 24.1                             |                          | 24.1                  |                      | 22.0   |       | 22.0                                    |   |                                |  |  |  |
| Return                       |  |          |                    |              |  |                      |                   |                      |                | 25.1                             |                          | 25.1                  |                      | -4.9   |       | -4.9                                    |   |                                |  |  |  |
| Ret/OA                       |  |          |                    |              |  |                      |                   |                      |                | 36.5                             |                          | 36.5                  |                      | 0.2  |       | 0.0                                     |   |                                |  |  |  |
| Fm MtrTD                     |  |          |                    |              |  |                      |                   |                      |                | 0.4                              |                          | 0.4                   |                      | 0.0  |       | 0.0                                     |   |                                |  |  |  |
| Fm BidTD                     |  |          |                    |              |  |                      |                   |                      |                | 0.0                              |                          | 0.0                   |                      | 1.1  |       | 1.1                                     |   |                                |  |  |  |
| Fm Frict                     |  |          |                    |              |  |                      |                   |                      |                | 1.1                              |                          | 1.1                   |                      | 0.0  |       | 0.0                                     |   |                                |  |  |  |
| HEATING COIL PEAK            |  |          |                    |              |  |                      |                   |                      |                | Capacity kW                      |                          | Coil Airflow L/s      |                      | Ent °C   |       |   |   |                                |  |  |  |
| Main Htg                     |  |          |                    |              |  |                      |                   |                      |                | -1.6                             |                          | 290                   |                      | 19.3   |       | 24.0                                    |   |                                |  |  |  |
| Aux Htg                      |  |          |                    |              |  |                      |                   |                      |                | 0.0                              |                          | 0                     |                      | 0.0  |       | 0.0                                     |   |                                |  |  |  |
| Preheat                      |  |          |                    |              |  |                      |                   |                      |                | -8.0                             |                          | 290                   |                      | -4.9   |       | 19.3                                    |   |                                |  |  |  |
| Reheat                       |  |          |                    |              |  |                      |                   |                      |                | -1.6                             |                          | 290                   |                      | 19.3   |       | 24.0                                    |   |                                |  |  |  |
| Humidif                      |  |          |                    |              |  |                      |                   |                      |                | -5.4                             |                          | 290                   |                      | 0.5  |       | 7.2                                     |   |                                |  |  |  |
| Opt Vent                     |  |          |                    |              |  |                      |                   |                      |                | 0.0                              |                          | 0                     |                      | 0.0  |       | 0.0                                     |   |                                |  |  |  |
| Total                        |  |          |                    |              |  |                      |                   |                      |                | -15.0                            |                          |                       |                      |  |       |   |   |                                |  |  |  |



Room Checksums

By GOCSA

CL0202 01 RECEPCION SUCIO

| COOLING COIL PEAK               |  |  |  |  |  |              |  |                           |  | CLG SPACE PEAK             |  |                                   |  | HEATING COIL PEAK          |  |                                |  | TEMPERATURES                |  |                            |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--------------|--|---------------------------|--|----------------------------|--|-----------------------------------|--|----------------------------|--|--------------------------------|--|-----------------------------|--|----------------------------|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |  |              |  | Mo/Hr: 7 / 21<br>OADB: 25 |  |                            |  | Mo/Hr: Heating Design<br>OADB: -5 |  |                            |  | SADB<br>22.1<br>25.2           |  |                             |  |                            |  |  |  |  |  |
| Sens. + Lat.<br>kW              |  |  |  | Space<br>kW                              |  | Plenum<br>kW |  | Net<br>Total<br>kW        |  | Percent<br>Of Total<br>(%) |  | Space Sensible<br>kW              |  | Percent<br>Of Total<br>(%) |  | Space Peak<br>Space Sens<br>kW |  | Coil Peak<br>Tot Sens<br>kW |  | Percent<br>Of Total<br>(%) |  | Plenum<br>24.2<br>22.0<br>Return<br>25.1<br>36.5<br>Ret/OA<br>-4.9<br>Fn MtrTD<br>0.1<br>Fn BidTD<br>0.0<br>Fn Frict<br>0.9<br>0.0 |  |  |  |
| Envelope Loads                  |  |  |  |  |  |              |  |                           |  | Envelope Loads             |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
| Skylite Solar                   |  |  |  | 0.00                                     |  | 0.00         |  | 0.00                      |  | 0                          |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | Heating<br>109<br>109  |  |  |  |
| Skylite Cond                    |  |  |  | 0.00                                     |  | 0.00         |  | 0.00                      |  | 0                          |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0  |  |  |  |
| Roof Cond                       |  |  |  | 0.00                                     |  | 0.00         |  | 0.00                      |  | 0                          |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0  |  |  |  |
| Glass Solar                     |  |  |  | 0.00                                     |  | 0.00         |  | 0.00                      |  | 0                          |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0  |  |  |  |
| Glass Cond                      |  |  |  | 0.00                                     |  | 0.00         |  | 0.00                      |  | 0                          |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0  |  |  |  |
| Wall Cond                       |  |  |  | 0.00                                     |  | 0.00         |  | 0.00                      |  | 0                          |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0  |  |  |  |
| Partition                       |  |  |  | 0.00                                     |  | 0.00         |  | 0.00                      |  | 0                          |  | 0.03                              |  | 0                          |  | -0.13                          |  | -0.13                       |  | 3                          |  | Cooling<br>109<br>109  |  |  |  |
| Exposed Floor                   |  |  |  | -0.01                                    |  | -0.01        |  | -0.01                     |  | 0                          |  | -0.01                             |  | 0                          |  | -0.27                          |  | -0.27                       |  | 7                          |  | Heating<br>109<br>109  |  |  |  |
| Infiltration                    |  |  |  | 0.00                                     |  | 0.00         |  | 0.00                      |  | 0                          |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0  |  |  |  |
| Sub Total ==>                   |  |  |  | -0.01                                    |  | 0.00         |  | -0.01                     |  | 0                          |  | 0.02                              |  | 0                          |  | -0.40                          |  | -0.40                       |  | 10                         |  | Supply<br>109<br>109<br>MinStop/Rh<br>109<br>Return<br>109<br>Exhaust<br>109<br>Rm Exh<br>0<br>Auxil<br>0<br>0                     |  |  |  |
| Internal Loads                  |  |  |  |  |  |              |  |                           |  | Internal Loads             |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
| Lights                          |  |  |  | 0.08                                     |  | 0.02         |  | 0.10                      |  | 3                          |  | 0.08                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0  |  |  |  |
| People                          |  |  |  | 0.24                                     |  | 0.00         |  | 0.24                      |  | 8                          |  | 0.13                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0  |  |  |  |
| Misc                            |  |  |  | 0.00                                     |  | 0.00         |  | 0.00                      |  | 0                          |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0  |  |  |  |
| Sub Total ==>                   |  |  |  | 0.32                                     |  | 0.02         |  | 0.34                      |  | 11                         |  | 0.21                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0  |  |  |  |
| Ceiling Load                    |  |  |  |  |  |              |  |                           |  | Ceiling Load               |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
| Ventilation Load                |  |  |  | 0.00                                     |  | 0.00         |  | 0.00                      |  | 0                          |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 0  |  |  |  |
| Adj Air Trans Heat              |  |  |  | 0  |  | 0.00         |  | 2.59                      |  | 85                         |  | 0.00                              |  | 0                          |  | 0                              |  | -3.35                       |  | 81                         |  | Cooling<br>100.0<br>Heating<br>100.0   |  |  |  |
| Dehumid. Ov Sizing              |  |  |  | 0.00                                     |  | 0.00         |  | 0                         |  | 0                          |  | 0                                 |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 7.50   |  |  |  |
| OvUndr Sizing                   |  |  |  | 0.00                                     |  | -0.14        |  | -0.14                     |  | -5                         |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 35.73  |  |  |  |
| Exhaust Heat                    |  |  |  | 0.00                                     |  | 0.16         |  | 0.16                      |  | 5                          |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 7.50   |  |  |  |
| Sup. Fan Heat                   |  |  |  | 0.11                                     |  | 0.11         |  | 0.11                      |  | 4                          |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 35.73  |  |  |  |
| Ret. Fan Heat                   |  |  |  | 0.00                                     |  | 0.00         |  | 0.00                      |  | 0                          |  | 0.00                              |  | 0                          |  | -0.40                          |  | -0.40                       |  | 10                         |  | 4.76   |  |  |  |
| Duct Heat PkUp                  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00                      |  | 0                          |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | 209.78   |  |  |  |
| Reheat at Design                |  |  |  | 0.00                                     |  | 0.00         |  | 0.00                      |  | 0                          |  | 0.00                              |  | 0                          |  | 0.00                           |  | 0.00                        |  | 0                          |  | -397.65  |  |  |  |
| Grand Total ==>                 |  |  |  | 0.31                                     |  | -0.01        |  | 3.05                      |  | 100.00                     |  | 0.23                              |  | 100.00                     |  | -0.40                          |  | -4.15                       |  | 100.00                     |  | No. People<br>1  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |
|                                 |  |  |  |  |  |              |  |                           |  |                            |  |                                   |  |                            |  |                                |  |                             |  |                            |  |  |  |  |  |



Room Checksums

By GOCSA

CL0202 02 LAVADO DE CARROS

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK         |          |       |          | HEATING COIL PEAK              |           |          |  |
|------------------------------|--------------|--------------|-------|------------------------|----------|-------|----------|--------------------------------|-----------|----------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 25 |          |       |          | Mo/Hr: Heating Design OADB: -5 |           |          |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                  | Percent  | Space | Percent  | Space Peak                     | Coil Peak | Percent  |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible               | Of Total | Total | Of Total | Space Sens                     | Tot Sens  | Of Total |  |
| kW                           | kW           | kW           | kW    | kW                     | (%)      | kW    | (%)      | kW                             | kW        | (%)      |  |
| Envelope Loads               |              |              |       |                        |          |       |          |                                |           |          |  |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Roof Cond                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Solar                  | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Cond                   | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Wall Cond                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Partition                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.03  | 0        | -0.12                          | -0.12     | 4        |  |
| Exposed Floor                | -0.01        |              | -0.01 | -0.01                  | 0        | -0.01 | 0        | -0.18                          | -0.18     | 6        |  |
| Infiltration                 | 0.00         |              | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | -0.01        | 0.00         | -0.01 | 0.02                   | 0        | 0.02  | 0        | -0.30                          | -0.30     | 10       |  |
| Internal Loads               |              |              |       |                        |          |       |          |                                |           |          |  |
| Lights                       | 0.09         | 0.02         | 0.11  | 0.09                   | 5        | 0.09  | 0        | 0.00                           | 0.00      | 0        |  |
| People                       | 0.26         |              | 0.26  | 0.15                   | 12       | 0.15  | 0        | 0.00                           | 0.00      | 0        |  |
| Misc                         | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 0.35         | 0.02         | 0.37  | 0.24                   | 17       | 0.24  | 0        | 0.00                           | 0.00      | 0        |  |
| Ceiling Load                 |              |              |       |                        |          |       |          |                                |           |          |  |
| Ventilation Load             | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0         | 0        |  |
| Adj Air Trans Heat           | 0.00         | 0.00         | 1.74  | 0.00                   | 79       | 0.00  | 0        | 0.00                           | -2.26     | 77       |  |
| Dehumid. Ov Sizing           | 0            |              | 0     | 0                      | 0        | 0     | 0        | 0                              | 0         | 0        |  |
| OvUndr Sizing                | 0.00         |              | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exhaust Heat                 |              | -0.09        | -0.09 |                        | -4       |       |          | 0.00                           | 0.00      | 0        |  |
| Sup. Fan Heat                |              | 0.11         | 0.11  |                        | 5        |       |          | 0.00                           | 0.00      | 0        |  |
| Ret. Fan Heat                |              | 0.08         | 0.08  |                        | 4        |       |          | 0.00                           | 0.00      | 0        |  |
| Duct Heat PkUp               |              | 0.00         | 0.00  |                        | 0        |       |          | -0.37                          | -0.37     | 13       |  |
| Reheat at Design             |              | 0.00         | 0.00  |                        | 0        |       |          | 0.00                           | 0.00      | 0        |  |
| Grand Total ==>              | 0.34         | 0.01         | 2.20  | 0.26                   | 100.00   | 0.26  | 100.00   | -0.30                          | -2.93     | 100.00   |  |

| TEMPERATURES |         |         |  |
|--------------|---------|---------|--|
| SADB         | Cooling | Heating |  |
| Plenum       | 20.9    | 25.7    |  |
| Return       | 24.2    | 22.0    |  |
| Ret/OA       | 25.1    | 22.0    |  |
| Fn MtrTD     | 36.5    | -4.9    |  |
| Fn BidTD     | 0.1     | 0.0     |  |
| Fn Frict     | 0.3     | 0.0     |  |
|              | 0.9     | 0.0     |  |

| AIRFLOWS   |         |         |  |
|------------|---------|---------|--|
| Vent       | Cooling | Heating |  |
| Infil      | 73      | 73      |  |
| Supply     | 0       | 0       |  |
| MinStop/Rh | 73      | 73      |  |
| Return     | 73      | 73      |  |
| Exhaust    | 73      | 73      |  |
| Rm Exh     | 0       | 0       |  |
| Auxil      | 0       | 0       |  |

| ENGINEERING CKS |         |         |  |
|-----------------|---------|---------|--|
| % OA            | Cooling | Heating |  |
| Lps/m²          | 100.0   | 100.0   |  |
| Lps/kW          | 7.50    | 7.50    |  |
| m²/kW           | 33.41   |         |  |
| W/m²            | 4.46    |         |  |
|                 | 224.33  | -401.23 |  |
| No. People      |         | 2       |  |

| COOLING COIL SELECTION |           |              |                |                |
|------------------------|-----------|--------------|----------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR | Leave DB/WB/HR |
| kW                     | kW        | L/s          | °C             | °C             |
| Main Clg               | 2.20      | 73           | 36.5           | 19.6           |
| Aux Clg                | 0.00      | 0.00         | 0.0            | 0.0            |
| Opt Vent               | 0.00      | 0            | 0.0            | 0.0            |
| Total                  | 2.20      |              |                |                |

| AREAS       |    | Glass |  |
|-------------|----|-------|--|
| Gross Total | m² | (%)   |  |
| Floor       | 10 |       |  |
| Part        | 41 |       |  |
| ExFlr       | 10 |       |  |
| Roof        | 0  | 0     |  |
| Wall        | 0  | 0     |  |

| HEATING COIL SELECTION |              |     |      |
|------------------------|--------------|-----|------|
| Capacity               | Coil Airflow | Ent | Lvg  |
| kW                     | L/s          | °C  | °C   |
| Main Htg               | -0.5         | 73  | 19.6 |
| Aux Htg                | 0.0          | 0   | 0.0  |
| Preheat                | -2.1         | 73  | -4.9 |
| Reheat                 | -0.4         | 73  | 19.6 |
| Humidif                | -1.4         | 73  | 24.0 |
| Opt Vent               | 0.0          | 0   | 0.0  |
| Total                  | -3.9         |     |      |



## Room Checksums

By GOCSA

## CL0202 03 ZONA LAVADO AUTOMATICO

[illegible]



## Room Checksums

By GOC SA

CL0202 04 ALMACEN FUNGIBLE EX 4/25

| COOLING COIL PEAK            |  |                    |  |           |  |                |  |                  |  | CLG SPACE PEAK                            |  |                    |  | HEATING COIL PEAK                 |  |  |  | TEMPERATURES   |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|--|--------------------|--|-----------|--|----------------|--|------------------|--|---|--|--------------------|--|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peaked at Time: Outside Air: |  |                    |  |           |  |                |  |                  |  | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |  |                    |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  | SADB<br>Plenum<br>Return<br>Ret/OA<br>Fn MtrTD<br>Fn BidTD<br>Fn Frict |  |  |  | Cooling<br>12.8<br>24.2<br>25.1<br>25.1<br>0.1<br>0.3<br>0.9 |  |  |  | Heating<br>24.0<br>22.0<br>22.0<br>22.0<br>0.0<br>0.0<br>0.0 |  |  |  |
| Space Sens. + Lat.           |  | Plenum Sens. + Lat |  | Net Total |  | Space Sensible |  | Percent Of Total |  | Space Peak Space Sens                     |  | Coil Peak Tot Sens |  | Percent Of Total                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| kW                           |  | kW                 |  | kW        |  | kW             |  | %                |  | kW  |  | kW                 |  | %                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Envelope Loads               |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Solar                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Cond                 |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Roof Cond                    |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glass Solar                  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glass Cond                   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wall Cond                    |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Partition                    |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exposed Floor                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Infiltration                 |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Internal Loads               |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lights                       |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| People                       |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Misc                         |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ceiling Load                 |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ventilation Load             |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat           |  | 0                  |  | 0.00      |  | 0              |  | 0                |  | 0   |  | 0                  |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing           |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing               |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exhaust Heat                 |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duct Heat PkUp               |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Reheat at Design             |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Grand Total ==>              |  | 0.00               |  | 0.00      |  | 0.00           |  | 100.00           |  | 0.00                                      |  | 0.00               |  | 100.00                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ENGINEERING CKS              |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| % OA                         |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lps/m²                       |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lps/kW                       |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| m²/kW                        |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W/m²                         |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No. People                   |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |           |  |              |  |                |  |                |  | AREAS       |  |       |  | HEATING COIL SELECTION |  |              |  |      |  |
|------------------------|--|-----------|--|--------------|--|----------------|--|----------------|--|-------------|--|-------|--|------------------------|--|--------------|--|------|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter DB/WB/HR |  | Leave DB/WB/HR |  | Gross Total |  | Glass |  | Capacity               |  | Coil Airflow |  | Ent  |  |
| kW                     |  | kW        |  | L/s          |  | °C             |  | °C             |  | m²          |  | %     |  | kW                     |  | L/s          |  | °C   |  |
| Main Clg               |  | 0.00      |  | 0            |  | 25.1           |  | 15.6           |  | 8.1         |  | 11.5  |  | 10.4                   |  | 0            |  | 11.5 |  |
| Aux Clg                |  | 0.00      |  | 0            |  | 0.0            |  | 0.0            |  | 0.0         |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  |
| Opt Vent               |  | 0.00      |  | 0            |  | 0.0            |  | 0.0            |  | 0.0         |  | 0.0   |  | 0.0                    |  | 0            |  | 0.0  |  |
| Total                  |  | 0.00      |  |              |  |                |  |                |  |             |  |       |  |                        |  |              |  |      |  |



Room Checksums

By GOCSA

CL0204 01 ESPERA

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK                   |          |          |                    | HEATING COIL PEAK      |           |          |        | TEMPERATURES                   |         |         |  |
|------------------------------|--------------|--------------|-------|----------------------------------|----------|----------|--------------------|------------------------|-----------|----------|--------|--------------------------------|---------|---------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |          |          |                    | Mo/Hr: 9 / 18 OADB: 26 |           |          |        | Mo/Hr: Heating Design OADB: -5 |         |         |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Percent                          | Space    | Percent  | Envelope Loads     | Space Peak             | Coil Peak | Percent  |        | SADB                           | Cooling | Heating |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Of Total                         | Sensible | Of Total |                    | Space Sens             | Tot Sens  | Of Total | (%)    | Plenum                         |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
| Envelope Loads               |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0                                | 0.00     | 0        | Skylite Solar      | 0.00                   | 0.00      | 0        | 0      | 0.00                           | 14.3    | 23.7    |  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0                                | 0.00     | 0        | Skylite Cond       | 0.00                   | 0.00      | 0        | 0      | 24.3                           | 24.3    | 21.8    |  |
| Roof Cond                    | 0.00         | 0.00         | 0.00  | 0                                | 0.00     | 0        | Roof Cond          | 0.00                   | 0.00      | 0        | 0      | 25.2                           | 25.2    | 21.8    |  |
| Glass Solar                  | 3.73         | 0.00         | 3.73  | 11                               | 8.04     | 51       | Glass Solar        | 0.00                   | 0.00      | 0        | 0      | 31.4                           | 31.4    | 7.2     |  |
| Glass Cond                   | 0.44         | 0.00         | 0.44  | 1                                | 0.14     | 1        | Glass Cond         | -1.43                  | -1.43     | 5        | 5      | 0.1                            | 0.1     | 0.0     |  |
| Wall Cond                    | 0.21         | 0.05         | 0.26  | 1                                | -0.06    | 0        | Wall Cond          | -1.23                  | -1.54     | 6        | 6      | 0.3                            | 0.3     | 0.0     |  |
| Partition                    | 0.00         | 0.00         | 0.00  | 0                                | 0.00     | 0        | Partition          | 0.00                   | 0.00      | 0        | 0      | 0.9                            | 0.9     | 0.0     |  |
| Exposed Floor                | 0.00         | 0.00         | 0.00  | 0                                | 0.00     | 0        | Exposed Floor      | 0.00                   | 0.00      | 0        | 0      |                                |         |         |  |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0                                | 0.00     | 0        | Infiltration       | 0.00                   | 0.00      | 0        | 0      |                                |         |         |  |
| Sub Total ==>                | 4.38         | 0.05         | 4.43  | 13                               | 8.12     | 51       | Sub Total ==>      | -2.66                  | -2.97     | 11       | 11     |                                |         |         |  |
| Internal Loads               |              |              |       |                                  |          |          | Internal Loads     |                        |           |          |        |                                |         |         |  |
| Lights                       | 2.18         | 0.55         | 2.73  | 8                                | 2.18     | 14       | Lights             | 0.00                   | 0.00      | 0        | 0      |                                |         |         |  |
| People                       | 7.75         | 0.00         | 7.75  | 23                               | 4.65     | 29       | People             | 0.00                   | 0.00      | 0        | 0      |                                |         |         |  |
| Misc                         | 0.70         | 0.00         | 0.70  | 2                                | 0.70     | 4        | Misc               | 0.00                   | 0.00      | 0        | 0      |                                |         |         |  |
| Sub Total ==>                | 10.63        | 0.55         | 11.18 | 33                               | 7.53     | 48       | Sub Total ==>      | 0.00                   | 0.00      | 0        | 0      |                                |         |         |  |
| Ceiling Load                 | 0.14         | -0.14        | 0.00  | 0                                | 0.12     | 1        | Ceiling Load       | -0.08                  | 0         | 0        | 0      |                                |         |         |  |
| Ventilation Load             | 0.00         | 0.00         | 15.79 | 47                               | 0.00     | 0        | Ventilation Load   | 0.00                   | -23.87    | 89       | 89     |                                |         |         |  |
| Adj Air Trans Heat           | 0            | 0.00         | 0     | 0                                | 0        | 0        | Adj Air Trans Heat | 0                      | 0         | 0        | 0      |                                |         |         |  |
| Dehumid. Ov Sizing           | 0.00         | -1.07        | 0.00  | 0                                | 0.00     | 0        | Ov/Undr Sizing     | 0.00                   | 0.00      | 0        | 0      |                                |         |         |  |
| Exhaust Heat                 |              |              | -1.07 | -3                               |          |          | Exhaust Heat       | 0.15                   | 0.15      | -1       | -1     |                                |         |         |  |
| Sup. Fan Heat                |              |              | 2.09  | 6                                |          |          | OA Preheat Diff.   | 0.00                   | 0.00      | 0        | 0      |                                |         |         |  |
| Ret. Fan Heat                |              |              | 1.47  | 4                                |          |          | RA Preheat Diff.   | 0.00                   | 0.00      | 0        | 0      |                                |         |         |  |
| Duct Heat Pkup               |              |              | 0.00  | 0                                |          |          | Additional Reheat  | 0.00                   | 0.00      | 0        | 0      |                                |         |         |  |
| Reheat at Design             |              |              | 0.00  | 0                                |          |          | System Plenum Heat | -0.05                  | -0.05     | 0        | 0      |                                |         |         |  |
| Grand Total ==>              | 15.15        | 0.86         | 33.89 | 100.00                           | 15.77    | 100.00   | Grand Total ==>    | -2.74                  | -26.74    | 100.00   | 100.00 |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        | ENGINEERING CKS                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |
|                              |              |              |       |                                  |          |          |                    |                        |           |          |        |                                |         |         |  |



Room Checksums

By GOCSA

CL0204 02 ASCENSOR

| COOLING COIL PEAK               |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK            |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |                    |  |  |  |  | TEMPERATURES       |  |  |  |  |                    |  |  |  |  |                    |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|-----------------------------------|--|--|--|--|--------------------|--|--|--|--|--------------------|--|--|--|--|--------------------|--|--|--|--|--------------------|--|--|--|--|--------------------|--|--|--|--|--------------------|--|--|--|--|----------------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 16<br>OADBWB/HR: 36 / 21 / 11 |  |  |  |  | Mo/Hr: 7 / 19<br>OADB: 30 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB               |  |  |  |  | Cooling            |  |  |  |  | Heating            |  |  |  |  |                    |  |  |  |  |                    |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | Plenum                                   |  |  |  |  | Net                       |  |  |  |  | Percent                           |  |  |  |  | Space              |  |  |  |  | Percent            |  |  |  |  | Space Peak         |  |  |  |  | Coil Peak          |  |  |  |  | Percent            |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| kW                              |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | Of Total                          |  |  |  |  | Sensible           |  |  |  |  | kW                 |  |  |  |  | Of Total           |  |  |  |  | kW                 |  |  |  |  | Tot Sens           |  |  |  |  | kW                 |  |  |  |  | Of Total       |  |  |  |  |
| Envelope Loads                  |  |  |  |  | Envelope Loads                           |  |  |  |  | Envelope Loads            |  |  |  |  | Envelope Loads                    |  |  |  |  | Envelope Loads     |  |  |  |  | Envelope Loads     |  |  |  |  | Envelope Loads     |  |  |  |  | Envelope Loads     |  |  |  |  | Envelope Loads     |  |  |  |  | Envelope Loads     |  |  |  |  |                |  |  |  |  |
| Skylite Solar                   |  |  |  |  | Skylite Solar                            |  |  |  |  | Skylite Solar             |  |  |  |  | Skylite Solar                     |  |  |  |  | Skylite Solar      |  |  |  |  | Skylite Solar      |  |  |  |  | Skylite Solar      |  |  |  |  | Skylite Solar      |  |  |  |  | Skylite Solar      |  |  |  |  | Skylite Solar      |  |  |  |  |                |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0              |  |  |  |  |
| Skylite Cond                    |  |  |  |  | Skylite Cond                             |  |  |  |  | Skylite Cond              |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0              |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0              |  |  |  |  |
| Roof Cond                       |  |  |  |  | Roof Cond                                |  |  |  |  | Roof Cond                 |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0              |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0              |  |  |  |  |
| Glass Solar                     |  |  |  |  | Glass Solar                              |  |  |  |  | Glass Solar               |  |  |  |  | 22                                |  |  |  |  | 2.11               |  |  |  |  | 2.11               |  |  |  |  | 55                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0              |  |  |  |  |
| 1.44                            |  |  |  |  | 1.44                                     |  |  |  |  | 1.44                      |  |  |  |  | 2                                 |  |  |  |  | 0.13               |  |  |  |  | 0.13               |  |  |  |  | 3                  |  |  |  |  | -0.42              |  |  |  |  | -0.42              |  |  |  |  | 9                  |  |  |  |  |                |  |  |  |  |
| Glass Cond                      |  |  |  |  | Glass Cond                               |  |  |  |  | Glass Cond                |  |  |  |  | 2                                 |  |  |  |  | 0.13               |  |  |  |  | 0.13               |  |  |  |  | 4                  |  |  |  |  | -0.66              |  |  |  |  | -0.66              |  |  |  |  | 17                 |  |  |  |  |                |  |  |  |  |
| 0.14                            |  |  |  |  | 0.14                                     |  |  |  |  | 0.14                      |  |  |  |  | 2                                 |  |  |  |  | 0.13               |  |  |  |  | 0.13               |  |  |  |  | 1                  |  |  |  |  | -0.15              |  |  |  |  | -0.15              |  |  |  |  | 3                  |  |  |  |  |                |  |  |  |  |
| Wall Cond                       |  |  |  |  | Wall Cond                                |  |  |  |  | Wall Cond                 |  |  |  |  | 2                                 |  |  |  |  | 0.15               |  |  |  |  | 0.15               |  |  |  |  | 1                  |  |  |  |  | -0.15              |  |  |  |  | -0.15              |  |  |  |  | 0                  |  |  |  |  |                |  |  |  |  |
| 0.11                            |  |  |  |  | 0.02                                     |  |  |  |  | 0.01                      |  |  |  |  | 0                                 |  |  |  |  | 0.04               |  |  |  |  | 0.04               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                |  |  |  |  |
| Partition                       |  |  |  |  | Partition                                |  |  |  |  | Partition                 |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                |  |  |  |  |
| 0.01                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                |  |  |  |  |
| Exposed Floor                   |  |  |  |  | Exposed Floor                            |  |  |  |  | Exposed Floor             |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                |  |  |  |  |
| Infiltration                    |  |  |  |  | Infiltration                             |  |  |  |  | Infiltration              |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | Sub Total ==>                            |  |  |  |  | Sub Total ==>             |  |  |  |  | Sub Total ==>                     |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>      |  |  |  |  |                |  |  |  |  |
| 1.70                            |  |  |  |  | 0.02                                     |  |  |  |  | 1.72                      |  |  |  |  | 26                                |  |  |  |  | 2.43               |  |  |  |  | 63                 |  |  |  |  | -1.23              |  |  |  |  | -1.37              |  |  |  |  | 30                 |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Internal Loads                  |  |  |  |  | Internal Loads                           |  |  |  |  | Internal Loads            |  |  |  |  | Internal Loads                    |  |  |  |  | Internal Loads     |  |  |  |  | Internal Loads     |  |  |  |  | Internal Loads     |  |  |  |  | Internal Loads     |  |  |  |  | Internal Loads     |  |  |  |  | Internal Loads     |  |  |  |  | Internal Loads |  |  |  |  |
| Lights                          |  |  |  |  | Lights                                   |  |  |  |  | Lights                    |  |  |  |  | 14                                |  |  |  |  | 0.75               |  |  |  |  | 19                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| 0.75                            |  |  |  |  | 0.19                                     |  |  |  |  | 0.94                      |  |  |  |  | 16                                |  |  |  |  | 0.64               |  |  |  |  | 17                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| People                          |  |  |  |  | People                                   |  |  |  |  | People                    |  |  |  |  | 16                                |  |  |  |  | 0.64               |  |  |  |  | 17                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| 1.07                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Misc                            |  |  |  |  | Misc                                     |  |  |  |  | Misc                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| 0.00                            |  |  |  |  | 0.19                                     |  |  |  |  | 2.01                      |  |  |  |  | 30                                |  |  |  |  | 1.39               |  |  |  |  | 36                 |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | Sub Total ==>                            |  |  |  |  | Sub Total ==>             |  |  |  |  | Sub Total ==>                     |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>      |  |  |  |  |                |  |  |  |  |
| 0.05                            |  |  |  |  | -0.05                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.05               |  |  |  |  | 1                  |  |  |  |  | -0.03              |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Ceiling Load                    |  |  |  |  | Ceiling Load                             |  |  |  |  | Ceiling Load              |  |  |  |  | Ceiling Load                      |  |  |  |  | Ceiling Load       |  |  |  |  | Ceiling Load       |  |  |  |  | Ceiling Load       |  |  |  |  | Ceiling Load       |  |  |  |  | Ceiling Load       |  |  |  |  | Ceiling Load       |  |  |  |  |                |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 2.20                      |  |  |  |  | 33                                |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | -3.30              |  |  |  |  | 72                 |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Ventilation Load                |  |  |  |  | Ventilation Load                         |  |  |  |  | Ventilation Load          |  |  |  |  | Ventilation Load                  |  |  |  |  | Ventilation Load   |  |  |  |  | Ventilation Load   |  |  |  |  | Ventilation Load   |  |  |  |  | Ventilation Load   |  |  |  |  | Ventilation Load   |  |  |  |  | Ventilation Load   |  |  |  |  |                |  |  |  |  |
| 0                               |  |  |  |  | 0  |  |  |  |  | 0                         |  |  |  |  | 0                                 |  |  |  |  | 0                  |  |  |  |  | 0                  |  |  |  |  | 0                  |  |  |  |  | 0                  |  |  |  |  | 0                  |  |  |  |  | 0                  |  |  |  |  |                |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | Adj Air Trans Heat                       |  |  |  |  | Adj Air Trans Heat        |  |  |  |  | Adj Air Trans Heat                |  |  |  |  | Adj Air Trans Heat |  |  |  |  | Adj Air Trans Heat |  |  |  |  | Adj Air Trans Heat |  |  |  |  | Adj Air Trans Heat |  |  |  |  | Adj Air Trans Heat |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0                         |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | Dehumid. Ov Sizing                       |  |  |  |  | Dehumid. Ov Sizing        |  |  |  |  | Dehumid. Ov Sizing                |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                |  |  |  |  |
| 0.00                            |  |  |  |  | -0.15                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | Ov/Undr Sizing                           |  |  |  |  | Ov/Undr Sizing            |  |  |  |  | Ov/Undr Sizing                    |  |  |  |  | Ov/Undr Sizing     |  |  |  |  | Ov/Undr Sizing     |  |  |  |  | Ov/Undr Sizing     |  |  |  |  | Ov/Undr Sizing     |  |  |  |  | Ov/Undr Sizing     |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |                |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | Exhaust Heat                             |  |  |  |  | Exhaust Heat              |  |  |  |  | Exhaust Heat                      |  |  |  |  | Exhaust Heat       |  |  |  |  | Exhaust Heat       |  |  |  |  | Exhaust Heat       |  |  |  |  | Exhaust Heat       |  |  |  |  | Exhaust Heat       |  |  |  |  | Exhaust Heat       |  |  |  |  |                |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | -0.15                     |  |  |  |  | -2                                |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.02               |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | Sup. Fan Heat                            |  |  |  |  | Sup. Fan Heat             |  |  |  |  | Sup. Fan Heat                     |  |  |  |  | Sup. Fan Heat      |  |  |  |  | Sup. Fan Heat      |  |  |  |  | Sup. Fan Heat      |  |  |  |  | Sup. Fan Heat      |  |  |  |  | Sup. Fan Heat      |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                |  |  |  |  |
| 0.00                            |  |  |  |  | 0.36                                     |  |  |  |  | 0.51                      |  |  |  |  | 8                                 |  |  |  |  | 0.51               |  |  |  |  | 8                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | Ret. Fan Heat                            |  |  |  |  | Ret. Fan Heat             |  |  |  |  | Ret. Fan Heat                     |  |  |  |  | Ret. Fan Heat      |  |  |  |  | Ret. Fan Heat      |  |  |  |  | Ret. Fan Heat      |  |  |  |  | Ret. Fan Heat      |  |  |  |  | Ret. Fan Heat      |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.36                      |  |  |  |  | 5                                 |  |  |  |  | 0.36               |  |  |  |  | 5                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Duct Heat PkUp                  |  |  |  |  | Duct Heat PkUp                           |  |  |  |  | Duct Heat PkUp            |  |  |  |  | Duct Heat PkUp                    |  |  |  |  | Duct Heat PkUp     |  |  |  |  | Duct Heat PkUp     |  |  |  |  | Duct Heat PkUp     |  |  |  |  | Duct Heat PkUp     |  |  |  |  | Duct Heat PkUp     |  |  |  |  | Duct Heat PkUp     |  |  |  |  |                |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.00               |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Reheat at Design                |  |  |  |  | Reheat at Design                         |  |  |  |  | Reheat at Design          |  |  |  |  | Reheat at Design                  |  |  |  |  | Reheat at Design   |  |  |  |  | Reheat at Design   |  |  |  |  | Reheat at Design   |  |  |  |  | Reheat at Design   |  |  |  |  | Reheat at Design   |  |  |  |  | Reheat at Design   |  |  |  |  |                |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0                  |  |  |  |  | 0.05               |  |  |  |  | 0.05               |  |  |  |  | -1                 |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | Grand Total ==>                          |  |  |  |  | Grand Total ==>           |  |  |  |  | Grand Total ==>                   |  |  |  |  | Grand Total ==>    |  |  |  |  | Grand Total ==>    |  |  |  |  | Grand Total ==>    |  |  |  |  | Grand Total ==>    |  |  |  |  | Grand Total ==>    |  |  |  |  | Grand Total ==>    |  |  |  |  |                |  |  |  |  |
| 3.57                            |  |  |  |  | 0.37                                     |  |  |  |  | 6.65                      |  |  |  |  | 100.00                            |  |  |  |  | 3.87               |  |  |  |  | 100.00             |  |  |  |  | -1.26              |  |  |  |  | -4.60              |  |  |  |  | 100.00             |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |

| COOLING COIL SELECTION |           |              |       |          |       |          |      |      |      | HEATING COIL SELECTION |       |          |              |      |      |          |              |      |      |
|------------------------|-----------|--------------|-------|----------|-------|----------|------|------|------|------------------------|-------|----------|--------------|------|------|----------|--------------|------|------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | DB/WB/HR | Leave | DB/WB/HR | g/kg | g/kg | g/kg | Gross Total            | Glass | Capacity | Coil Airflow | Ent  | Lvg  | Capacity | Coil Airflow | Ent  | Lvg  |
| 6.66                   | 5.49      | 348          | 28.5  | 17.7     | 9.4   | 13.0     | 11.8 | 8.9  | 8.9  | 86                     | 10    | -4.6     | 348          | 13.6 | 25.1 | -4.6     | 348          | 13.6 | 25.1 |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 16                     | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 0                      | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 0                      | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 6.66                   | 5.49      | 348          | 28.5  | 17.7     | 9.4   | 13.0     | 11.8 | 8.9  | 8.9  | 86                     | 10    | -4.6     | 348          | 13.6 | 25.1 | -4.6     | 348          | 13.6 | 25.1 |
| 0.00                   | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 16                     | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 0                      | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 6.66                   | 5.49      | 348          | 28.5  | 17.7     | 9.4   | 13.0     | 11.8 | 8.9  | 8.9  | 86                     | 10    | -4.6     | 348          | 13.6 | 25.1 | -4.6     | 348          | 13.6 | 25.1 |
| 0.00                   | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 16                     | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 0                      | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 6.66                   | 5.49      | 348          | 28.5  | 17.7     | 9.4   | 13.0     | 11.8 | 8.9  | 8.9  | 86                     | 10    | -4.6     | 348          | 13.6 | 25.1 | -4.6     | 348          | 13.6 | 25.1 |
| 0.00                   | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 16                     | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 0                      | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 6.66                   | 5.49      | 348          | 28.5  | 17.7     | 9.4   | 13.0     | 11.8 | 8.9  | 8.9  | 86                     | 10    | -4.6     | 348          | 13.6 | 25.1 | -4.6     | 348          | 13.6 | 25.1 |
| 0.00                   | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 16                     | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 0                      | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 6.66                   | 5.49      | 348          | 28.5  | 17.7     | 9.4   | 13.0     | 11.8 | 8.9  | 8.9  | 86                     | 10    | -4.6     | 348          | 13.6 | 25.1 | -4.6     | 348          | 13.6 | 25.1 |
| 0.00                   | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 16                     | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 0                      | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 6.66                   | 5.49      | 348          | 28.5  | 17.7     | 9.4   | 13.0     | 11.8 | 8.9  | 8.9  | 86                     | 10    | -4.6     | 348          | 13.6 | 25.1 | -4.6     | 348          | 13.6 | 25.1 |
| 0.00                   | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 16                     | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 0                      | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 6.66                   | 5.49      | 348          | 28.5  | 17.7     | 9.4   | 13.0     | 11.8 | 8.9  | 8.9  | 86                     | 10    | -4.6     | 348          | 13.6 | 25.1 | -4.6     | 348          | 13.6 | 25.1 |
| 0.00                   | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 16                     | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 0                      | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 6.66                   | 5.49      | 348          | 28.5  | 17.7     | 9.4   | 13.0     | 11.8 | 8.9  | 8.9  | 86                     | 10    | -4.6     | 348          | 13.6 | 25.1 | -4.6     | 348          | 13.6 | 25.1 |
| 0.00                   | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 16                     | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 0                      | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 6.66                   | 5.49      | 348          | 28.5  | 17.7     | 9.4   | 13.0     | 11.8 | 8.9  | 8.9  | 86                     | 10    | -4.6     | 348          | 13.6 | 25.1 | -4.6     | 348          | 13.6 | 25.1 |
| 0.00                   | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 16                     | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 0                      | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 6.66                   | 5.49      | 348          | 28.5  | 17.7     | 9.4   | 13.0     | 11.8 | 8.9  | 8.9  | 86                     | 10    | -4.6     | 348          | 13.6 | 25.1 | -4.6     | 348          | 13.6 | 25.1 |
| 0.00                   | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 16                     | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0   | 0.0      | 0.0  | 0.0  | 0.0  | 0                      | 0     | 0.0      | 0            | 0.0  | 0.0  | 0.0      | 0            | 0.0  | 0.0  |
| 6.66                   | 5.49      | 348          | 28.5  | 17.7     | 9.4   | 13.0     | 11.8 | 8.9  | 8.9  | 86                     | 10    | -4.6     | 348          | 13.6 | 25.1 | -4.6     | 348          |      |      |



Room Checksums

By GOCSA

CL0206 01 ESTAR PERSONAL

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK         |          |       |          | HEATING COIL PEAK              |           |          |              |
|------------------------------|--------------|--------------|-------|------------------------|----------|-------|----------|--------------------------------|-----------|----------|--------------|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 36 |          |       |          | Mo/Hr: Heating Design OADB: -5 |           |          |              |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                  | Percent  | Space | Percent  | Space Peak                     | Coil Peak | Percent  | TEMPERATURES |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible               | Of Total | Total | Of Total | Space Sens                     | Tot Sens  | Of Total |              |
| kW                           | kW           | kW           | kW    | kW                     | (%)      | kW    | (%)      | kW                             | kW        | (%)      | SADB         |
| Envelope Loads               |              |              |       |                        |          |       |          |                                |           |          | Plenum       |
| 0.00                         | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        | 15.5         |
| 0.00                         | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        | 24.6         |
| 0.00                         | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        | 24.3         |
| 0.71                         | 0.00         | 0.00         | 0.71  | 0.77                   | 13       | 0.77  | 45       | 0.00                           | 0.00      | 0        | 21.8         |
| 0.09                         | 0.00         | 0.00         | 0.09  | 0.07                   | 2        | 0.07  | 4        | 0.00                           | 0.00      | 0        | 25.2         |
| 0.03                         | 0.01         | 0.04         | 0.04  | 0.03                   | 1        | 0.03  | 2        | -0.29                          | -0.29     | 4        | 36.5         |
| 0.00                         | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | -0.22                          | -0.22     | 4        | 0.1          |
| 0.00                         | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        | 0.3          |
| 0.00                         | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        | 0.9          |
| 0.00                         | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        | 0.0          |
| 0.83                         | 0.01         | 0.01         | 0.84  | 0.87                   | 16       | 0.87  | 51       | -0.51                          | -0.58     | 7        | 0.0          |
| Sub Total ==>                |              |              |       |                        |          |       |          |                                |           |          | Fn MtrTD     |
| Internal Loads               |              |              |       |                        |          |       |          |                                |           |          | Fn BidTD     |
| 0.19                         | 0.05         | 0.05         | 0.24  | 0.19                   | 5        | 0.19  | 11       | 0.00                           | 0.00      | 0        | Fn Frict     |
| 0.53                         | 0.00         | 0.00         | 0.53  | 0.29                   | 10       | 0.29  | 17       | 0.00                           | 0.00      | 0        |              |
| 0.35                         | 0.00         | 0.00         | 0.35  | 0.35                   | 7        | 0.35  | 20       | 0.00                           | 0.00      | 0        | AIRFLOWS     |
| 1.07                         | 0.05         | 0.05         | 1.12  | 0.83                   | 21       | 0.83  | 49       | 0.00                           | 0.00      | 0        | Cooling      |
| Sub Total ==>                |              |              |       |                        |          |       |          |                                |           |          | Heating      |
| 0.01                         | -0.01        | -0.01        | 0.00  | 0.01                   | 0        | 0.01  | 1        | -0.01                          | 0         | 0        | Vent         |
| 0.00                         | 0.00         | 0.00         | 3.14  | 0.00                   | 59       | 0.00  | 0        | 0.00                           | -5.44     | 69       | 177          |
| 0                            | 0            | 0            | 0     | 0                      | 0        | 0     | 0        | 0                              | 0         | 0        | 177          |
| 0.00                         | -0.25        | -0.25        | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        | 0            |
| 0.00                         | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        | 177          |
| Exhaust Heat                 | 0.26         | 0.26         | 0.26  | 0.26                   | 5        | 0.26  | 1        | 0.00                           | 0.04      | -1       | 177          |
| Sup. Fan Heat                | 0.18         | 0.18         | 0.18  | 0.18                   | 3        | 0.18  | 1        | 0.00                           | 0.00      | 0        | 177          |
| Ret. Fan Heat                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        | 177          |
| Duct Heat PkUp               | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | -1.99                          | -1.99     | 25       | 0            |
| Reheat at Design             | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.03                           | 0.03      | 0        | 0            |
| Grand Total ==>              |              |              |       |                        |          |       |          |                                |           |          | W/m²         |
| 1.91                         | -0.02        | -0.02        | 5.29  | 1.71                   | 100.00   | 1.71  | 100.00   | -0.52                          | -7.94     | 100.00   | 245.04       |
| Grand Total ==>              |              |              |       |                        |          |       |          |                                |           |          | -427.15      |
| Grand Total ==>              |              |              |       |                        |          |       |          |                                |           |          | No. People   |
| Grand Total ==>              |              |              |       |                        |          |       |          |                                |           |          | 4            |

| COOLING COIL SELECTION                   |      |           |     |              |      |                |      |                |     | AREAS       |    |       |    | HEATING COIL SELECTION |      |              |      |      |     |
|--|------|-----------|-----|--------------|------|----------------|------|----------------|-----|-------------|----|-------|----|------------------------|------|--------------|------|------|-----|
| Total Capacity                           |      | Sens Cap. |     | Coil Airflow |      | Enter DB/WB/HR |      | Leave DB/WB/HR |     | Gross Total |    | Glass |    | Capacity               |      | Coil Airflow |      | Ent  |     |
| kW                                       |      | kW        |     | L/s          |      | °C             |      | °C             |     | °C          |    | g/kg  |    | m²                     |      | kW           |      | °C   |     |
| Main Clg<br>Aux Clg<br>Opt Vent<br>Total | 5.30 | 4.44      | 177 | 36.5         | 21.6 | 11.5           | 14.2 | 13.2           | 9.9 | Floor       | 22 |       |    |                        | -2.1 | 177          | 14.2 | 24.6 |     |
|  | 0.00 | 0.00      | 0   | 0.0          | 0.0  | 0.0            | 0.0  | 0.0            | 0.0 | Part        | 32 |       |    |                        | 0.0  | 0            | 0.0  | 0.0  |     |
|  | 0.00 | 0.00      | 0   | 0.0          | 0.0  | 0.0            | 0.0  | 0.0            | 0.0 | ExFlr       | 0  |       | 0  |                        | -3.9 | 177          | -4.9 | 14.2 |     |
|  | 0.00 | 0.00      | 0   | 0.0          | 0.0  | 0.0            | 0.0  | 0.0            | 0.0 | Roof        | 0  |       | 0  |                        | -2.0 | 177          | 14.2 | 24.0 |     |
|  |      |           |     |              |      |                |      |                |     | Wall        | 32 | 7     | 23 |                        | -3.3 | 177          | 7.2  | 0.0  |     |
|  | 5.30 |           |     |              |      |                |      |                |     |             |    |       |    |                        | 0.0  | 0            | 0.0  | 0.0  | 0.0 |
|  |      |           |     |              |      |                |      |                |     |             |    |       |    |                        | -9.2 |              |      |      |     |



CL0206 02 SUCIO EX 4/25

| COOLING COIL PEAK            |  |  |  | CLG SPACE PEAK                        |  |              |  | HEATING COIL PEAK              |  |                      |  | TEMPERATURES                   |  |                       |  |                      |  |
|------------------------------|--|--|--|---------------------------------------|--|--------------|--|--------------------------------|--|----------------------|--|--------------------------------|--|-----------------------|--|----------------------|--|
| Peaked at Time: Outside Air: |  |  |  | Mo/Hr: 7 / 15 OADBWB/HR: 36 / 22 / 11 |  |              |  | Mo/Hr: Heating Design OADB: -5 |  |                      |  | SADB Cooling Heating 27.6 21.8 |  |                       |  |                      |  |
| Sens. + Lat. kW              |  |  |  | Plenum Sens. + Lat. kW                |  | Net Total kW |  | Space Sensible kW              |  | Percent Of Total (%) |  | Space Peak kW                  |  | Coil Peak Tot Sens kW |  | Percent Of Total (%) |  |
| Envelope Loads               |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Envelope Loads                 |  | 0.00                  |  | 0                    |  |
| Skylite Solar                |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Skylite Solar                  |  | 0.00                  |  | 0                    |  |
| Skylite Cond                 |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Skylite Cond                   |  | 0.00                  |  | 0                    |  |
| Roof Cond                    |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Roof Cond                      |  | 0.00                  |  | 0                    |  |
| Glass Solar                  |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Glass Solar                    |  | 0.00                  |  | 0                    |  |
| Glass Cond                   |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Glass Cond                     |  | 0.00                  |  | 0                    |  |
| Wall Cond                    |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Wall Cond                      |  | 0.00                  |  | 0                    |  |
| Partition                    |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Partition                      |  | 0.00                  |  | 0                    |  |
| Exposed Floor                |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Exposed Floor                  |  | 0.00                  |  | 0                    |  |
| Infiltration                 |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Infiltration                   |  | 0.00                  |  | 0                    |  |
| Sub Total ==>                |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Sub Total ==>                  |  | 0.00                  |  | 0                    |  |
| Internal Loads               |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Internal Loads                 |  | 0.00                  |  | 0                    |  |
| Lights                       |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Lights                         |  | 0.00                  |  | 0                    |  |
| People                       |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | People                         |  | 0.00                  |  | 0                    |  |
| Misc                         |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Misc                           |  | 0.00                  |  | 0                    |  |
| Sub Total ==>                |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Sub Total ==>                  |  | 0.00                  |  | 0                    |  |
| Ceiling Load                 |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Ceiling Load                   |  | 0.00                  |  | 0                    |  |
| Ventilation Load             |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Ventilation Load               |  | 0.00                  |  | 0                    |  |
| Adj Air Trans Heat           |  |  |  | 0                                     |  | 0            |  | 0                              |  | 0                    |  | Adj Air Trans Heat             |  | 0                     |  | 0                    |  |
| Dehumid. Ov Sizing           |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Ov/Undr Sizing                 |  | 0.00                  |  | 0                    |  |
| Exhaust Heat                 |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Exhaust Heat                   |  | 0.00                  |  | 0                    |  |
| Sup. Fan Heat                |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | OA Preheat Diff.               |  | 0.00                  |  | 0                    |  |
| Ret. Fan Heat                |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | RA Preheat Diff.               |  | 0.00                  |  | 0                    |  |
| Duct Heat Pkup               |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | Additional Reheat              |  | -0.01                 |  | 0                    |  |
| Reheat at Design             |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 0                    |  | System Plenum Heat             |  | 0.00                  |  | 0                    |  |
| Grand Total ==>              |  |  |  | 0.00                                  |  | 0.00         |  | 0.00                           |  | 100.00               |  | Grand Total ==>                |  | -0.01                 |  | 100.00               |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |
|                              |  |  |  |                                       |  |              |  |                                |  |                      |  |                                |  |                       |  |                      |  |



Room Checksums

By GOCSA

CL0206 03 CONTROL CAMAS

| COOLING COIL PEAK               |  |       |        | CLG SPACE PEAK                           |          |         |          | HEATING COIL PEAK                 |            |           |         | TEMPERATURES                         |         |         |  |
|---------------------------------|--|-------|--------|--|----------|---------|----------|-----------------------------------|------------|-----------|---------|--------------------------------------|---------|---------|--|
| Peaked at Time:<br>Outside Air: |  |       |        | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |          |         |          | Mo/Hr: Heating Design<br>OADB: -5 |            |           |         |                                      |         |         |  |
| Sens. + Lat.                    |  | Space | Plenum | Net                                      |          | Percent | Space    | Percent                           | Space Peak | Coil Peak | Percent | SADB                                 | Cooling | Heating |  |
| kW                              |  | kW    | kW     | Total                                    | Of Total | (%)     | Sensible | Of Total                          | Space Sens | Tot Sens  | (%)     | Plenum                               |         |         |  |
|                                 |  |       |        | kW                                       | kW       |         | kW       |                                   | kW         | kW        |         | Return <td>25.3</td> <td>24.0</td>   | 25.3    | 24.0    |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         | Fn MtrTD <td>24.3</td> <td>21.8</td> | 24.3    | 21.8    |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         | Ret/OA <td>25.2</td> <td>21.8</td>   | 25.2    | 21.8    |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         | Fn MtrTD <td>36.5</td> <td>-4.9</td> | 36.5    | -4.9    |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         | Fn BidTD <td>0.1</td> <td>0.0</td>   | 0.1     | 0.0     |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         | Fn Frict <td>0.3</td> <td>0.0</td>   | 0.3     | 0.0     |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      | 0.9     | 0.0     |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
| Envelope Loads                  |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |
|                                 |  |       |        |  |          |         |          |                                   |            |           |         |                                      |         |         |  |



Room Checksums

By GOCSA

CL0206 04 AREA TRABAJO

| COOLING COIL PEAK |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |              |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|-------------------|--|--|--|--|-------------------------|--|--|--|--|----------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|--------------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:   |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 19  |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB              |  |  |  |  | Cooling      |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |
| Outside Air:      |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 30       |  |  |  |  | OADB: -5              |  |  |  |  | Plenum            |  |  |  |  | 24.3         |  |  |  |  | 21.8         |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Plenum                  |  |  |  |  | Net            |  |  |  |  | Space                 |  |  |  |  | Space Peak        |  |  |  |  | Coil Peak    |  |  |  |  | Percent      |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Total          |  |  |  |  | Sensible              |  |  |  |  | Space Sens        |  |  |  |  | Tot Sens     |  |  |  |  | Of Total     |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
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| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
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| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
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| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |              |  |  |  |  |              |  |  |  |  |  |  |  |  |  |



Room Checksums

By GOCSA

CL0207 01 AREA SILLONES 1 CONTROL CONTRO

| COOLING COIL PEAK            |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK                        |  |  |  | HEATING COIL PEAK              |  |  |  | TEMPERATURES         |  |        |  |        |  |        |  |
|------------------------------|--|--|--|--|--|--|--|--|--|---------------------------------------|--|--|--|--------------------------------|--|--|--|----------------------|--|--------|--|--------|--|--------|--|
| Peaked at Time: Outside Air: |  |  |  |  |  |  |  |  |  | Mo/Hr: 7 / 15 OADBWB/Hr: 36 / 22 / 11 |  |  |  | Mo/Hr: Heating Design OADB: -5 |  |  |  | SADB Cooling Heating |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  | Plenum 24.3 21.9     |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  | Return 25.2 21.9     |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  | Ret/OA 36.5 -4.9     |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  | Fn MtrTD 0.1 0.0     |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  | Fn BidTD 0.3 0.0     |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  | Fn Frict 0.9 0.0     |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
| Envelope Loads               |  |  |  |  |  |  |  |  |  | Envelope Loads                        |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
| Skylite Solar                |  |  |  |  |  |  |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| Skylite Cond                 |  |  |  |  |  |  |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| Roof Cond                    |  |  |  |  |  |  |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| Glass Solar                  |  |  |  |  |  |  |  |  |  | 12                                    |  |  |  | 5.65                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| Glass Cond                   |  |  |  |  |  |  |  |  |  | 1                                     |  |  |  | 0.34                           |  |  |  | -1.38                |  | 2      |  |        |  |        |  |
| Wall Cond                    |  |  |  |  |  |  |  |  |  | 1                                     |  |  |  | 0.18                           |  |  |  | -1.34                |  | 2      |  |        |  |        |  |
| Partition                    |  |  |  |  |  |  |  |  |  | 0                                     |  |  |  | -0.10                          |  |  |  | -0.91                |  | 2      |  |        |  |        |  |
| Exposed Floor                |  |  |  |  |  |  |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| Infiltration                 |  |  |  |  |  |  |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| Sub Total ==>                |  |  |  |  |  |  |  |  |  | 14                                    |  |  |  | 5.61                           |  |  |  | -3.31                |  | 6      |  |        |  |        |  |
| Internal Loads               |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
| Lights                       |  |  |  |  |  |  |  |  |  | 8                                     |  |  |  | 2.56                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| People                       |  |  |  |  |  |  |  |  |  | 8                                     |  |  |  | 1.83                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| Misc                         |  |  |  |  |  |  |  |  |  | 8                                     |  |  |  | 3.30                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| Sub Total ==>                |  |  |  |  |  |  |  |  |  | 24                                    |  |  |  | 7.69                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| Ceiling Load                 |  |  |  |  |  |  |  |  |  | 0                                     |  |  |  | 0.17                           |  |  |  | -0.06                |  | 0      |  |        |  |        |  |
| Ventilation Load             |  |  |  |  |  |  |  |  |  | 59                                    |  |  |  | 0.00                           |  |  |  | 0.00                 |  | 67     |  |        |  |        |  |
| Adj Air Trans Heat           |  |  |  |  |  |  |  |  |  | 0                                     |  |  |  | 0                              |  |  |  | 0                    |  | 0      |  |        |  |        |  |
| Dehumid. Ov Sizing           |  |  |  |  |  |  |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| Ov/Undr Sizing               |  |  |  |  |  |  |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| Exhaust Heat                 |  |  |  |  |  |  |  |  |  | -4                                    |  |  |  | -1.79                          |  |  |  | 0.18                 |  | 0      |  |        |  |        |  |
| Sup. Fan Heat                |  |  |  |  |  |  |  |  |  | 5                                     |  |  |  | 1.87                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| Ret. Fan Heat                |  |  |  |  |  |  |  |  |  | 3                                     |  |  |  | 1.31                           |  |  |  | 0.00                 |  | 0      |  |        |  |        |  |
| Duct Heat PkUp               |  |  |  |  |  |  |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  | -15.82               |  | 27     |  |        |  |        |  |
| Reheat at Design             |  |  |  |  |  |  |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  | 0.09                 |  | 0      |  |        |  |        |  |
| Grand Total ==>              |  |  |  |  |  |  |  |  |  | 14.88                                 |  |  |  | 41.32                          |  |  |  | 13.93                |  | 100.00 |  | -58.08 |  | 100.00 |  |
|                              |  |  |  |  |  |  |  |  |  | 0.05                                  |  |  |  |                                |  |  |  | -3.37                |  |        |  | 25     |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |
|                              |  |  |  |  |  |  |  |  |  |                                       |  |  |  |                                |  |  |  |                      |  |        |  |        |  |        |  |



Room Checksums

By GOCSA

CL0207 02 SUCIO EX 4/25

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK     |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |           |  |  |  |  | TEMPERATURES |  |  |  |  |      |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------|--|--|--|--|-----------------------|--|--|--|--|--------------------|--|--|--|--|-----------|--|--|--|--|--------------|--|--|--|--|------|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 24      |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB               |  |  |  |  | Cooling   |  |  |  |  | Heating      |  |  |  |  |      |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 21           |  |  |  |  | OADB: -5              |  |  |  |  | Plenum             |  |  |  |  | 24.3      |  |  |  |  | 25.9         |  |  |  |  |      |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net                |  |  |  |  | Space                 |  |  |  |  | Space Peak         |  |  |  |  | Coil Peak |  |  |  |  | Return       |  |  |  |  |      |  |  |  |  |
| kW                 |  |  |  |  | kW                      |  |  |  |  | kW                 |  |  |  |  | Sensible              |  |  |  |  | kW                 |  |  |  |  | Tot Sens  |  |  |  |  | kW           |  |  |  |  | 25.2 |  |  |  |  |
| %                  |  |  |  |  | %                       |  |  |  |  | %                  |  |  |  |  | %                     |  |  |  |  | %                  |  |  |  |  | %         |  |  |  |  | 21.9         |  |  |  |  |      |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  | Envelope Loads     |  |  |  |  |                       |  |  |  |  | Envelope Loads     |  |  |  |  |           |  |  |  |  | Fn MtrTD     |  |  |  |  |      |  |  |  |  |
| Skylite Solar      |  |  |  |  |                         |  |  |  |  | Skylite Solar      |  |  |  |  |                       |  |  |  |  | Skylite Solar      |  |  |  |  |           |  |  |  |  | Fn BidTD     |  |  |  |  |      |  |  |  |  |
| Skylite Cond       |  |  |  |  |                         |  |  |  |  | Skylite Cond       |  |  |  |  |                       |  |  |  |  | Skylite Cond       |  |  |  |  |           |  |  |  |  | Fn Frict     |  |  |  |  |      |  |  |  |  |
| Roof Cond          |  |  |  |  |                         |  |  |  |  | Roof Cond          |  |  |  |  |                       |  |  |  |  | Roof Cond          |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Glass Solar        |  |  |  |  |                         |  |  |  |  | Glass Solar        |  |  |  |  |                       |  |  |  |  | Glass Solar        |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Glass Cond         |  |  |  |  |                         |  |  |  |  | Glass Cond         |  |  |  |  |                       |  |  |  |  | Glass Cond         |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Wall Cond          |  |  |  |  |                         |  |  |  |  | Wall Cond          |  |  |  |  |                       |  |  |  |  | Wall Cond          |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Partition          |  |  |  |  |                         |  |  |  |  | Partition          |  |  |  |  |                       |  |  |  |  | Partition          |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Exposed Floor      |  |  |  |  |                         |  |  |  |  | Exposed Floor      |  |  |  |  |                       |  |  |  |  | Exposed Floor      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Infiltration       |  |  |  |  |                         |  |  |  |  | Infiltration       |  |  |  |  |                       |  |  |  |  | Infiltration       |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  | Internal Loads     |  |  |  |  |                       |  |  |  |  | Internal Loads     |  |  |  |  |           |  |  |  |  | MinStop/Rh   |  |  |  |  |      |  |  |  |  |
| Lights             |  |  |  |  |                         |  |  |  |  | Lights             |  |  |  |  |                       |  |  |  |  | Lights             |  |  |  |  |           |  |  |  |  | Return       |  |  |  |  |      |  |  |  |  |
| People             |  |  |  |  |                         |  |  |  |  | People             |  |  |  |  |                       |  |  |  |  | People             |  |  |  |  |           |  |  |  |  | Exhaust      |  |  |  |  |      |  |  |  |  |
| Misc               |  |  |  |  |                         |  |  |  |  | Misc               |  |  |  |  |                       |  |  |  |  | Misc               |  |  |  |  |           |  |  |  |  | Rm Exh       |  |  |  |  |      |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>      |  |  |  |  |           |  |  |  |  | Auxil        |  |  |  |  |      |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  | Ceiling Load       |  |  |  |  |                       |  |  |  |  | Ceiling Load       |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Ventilation Load   |  |  |  |  |                         |  |  |  |  | Ventilation Load   |  |  |  |  |                       |  |  |  |  | Ventilation Load   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  |                         |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                       |  |  |  |  | Adj Air Trans Heat |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                       |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| OvUndr Sizing      |  |  |  |  |                         |  |  |  |  | OvUndr Sizing      |  |  |  |  |                       |  |  |  |  | OvUndr Sizing      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Exhaust Heat       |  |  |  |  |                         |  |  |  |  | Exhaust Heat       |  |  |  |  |                       |  |  |  |  | Exhaust Heat       |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  |                         |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                       |  |  |  |  | Sup. Fan Heat      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  |                         |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                       |  |  |  |  | Ret. Fan Heat      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  |                         |  |  |  |  | Duct Heat Pkup     |  |  |  |  |                       |  |  |  |  | Duct Heat Pkup     |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Reheat at Design   |  |  |  |  |                         |  |  |  |  | Additional Reheat  |  |  |  |  |                       |  |  |  |  | System Plenum Heat |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                         |  |  |  |  | Grand Total ==>    |  |  |  |  |                       |  |  |  |  | Grand Total ==>    |  |  |  |  |           |  |  |  |  | No. People   |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |      |  |  |  |  |



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| COOLING COIL PEAK               |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK            |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |                  |  |  |  |  | TEMPERATURES |  |  |  |  |           |  |  |  |  |                  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|-----------------------------------|--|--|--|--|--------------------|--|--|--|--|------------------|--|--|--|--|--------------|--|--|--|--|-----------|--|--|--|--|------------------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |  |  |  |  | Mo/Hr: 7 / 24<br>OADB: 21 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB               |  |  |  |  | Cooling          |  |  |  |  | Heating      |  |  |  |  |           |  |  |  |  |                  |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | Plenum                                   |  |  |  |  | Net Total                 |  |  |  |  | Percent Of Total                  |  |  |  |  | Space Sensible     |  |  |  |  | Percent Of Total |  |  |  |  | Space Peak   |  |  |  |  | Coil Peak |  |  |  |  | Percent Of Total |  |  |  |  |
| kW                              |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | %                                 |  |  |  |  | kW                 |  |  |  |  | %                |  |  |  |  | kW           |  |  |  |  | kW        |  |  |  |  | %                |  |  |  |  |
| Envelope Loads                  |  |  |  |  |  |  |  |  |  | Envelope Loads            |  |  |  |  |                                   |  |  |  |  | Envelope Loads     |  |  |  |  |                  |  |  |  |  |              |  |  |  |  |           |  |  |  |  |                  |  |  |  |  |
| Skylite Solar                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Skylite Cond                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Roof Cond                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Glass Solar                     |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Glass Cond                      |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Wall Cond                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Partition                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Exposed Floor                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Infiltration                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Internal Loads                  |  |  |  |  |  |  |  |  |  | Internal Loads            |  |  |  |  |                                   |  |  |  |  | Internal Loads     |  |  |  |  |                  |  |  |  |  |              |  |  |  |  |           |  |  |  |  |                  |  |  |  |  |
| Lights                          |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| People                          |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Misc                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Ceiling Load                    |  |  |  |  |  |  |  |  |  | Ceiling Load              |  |  |  |  |                                   |  |  |  |  | Ceiling Load       |  |  |  |  |                  |  |  |  |  |              |  |  |  |  |           |  |  |  |  |                  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Ventilation Load                |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | 0  |  |  |  |  | 0                         |  |  |  |  | 0                                 |  |  |  |  | 0                  |  |  |  |  | 0                |  |  |  |  | 0            |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  |  |  |  |  |  | Dehumid. Ov Sizing        |  |  |  |  |                                   |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                  |  |  |  |  |              |  |  |  |  |           |  |  |  |  |                  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Duct Heat PkUp                  |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | -0.01              |  |  |  |  | -0.01            |  |  |  |  | 0            |  |  |  |  |           |  |  |  |  |                  |  |  |  |  |
| Reheat at Design                |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00         |  |  |  |  | 0         |  |  |  |  |                  |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 100.00                            |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | -0.01        |  |  |  |  | 100.00    |  |  |  |  |                  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |               |  |  |  |  |               |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|---------------|--|--|--|--|---------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|------|--|--|--|--|-----|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Enter DBWB/HR |  |  |  |  | Leave DBWB/HR |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | °C            |  |  |  |  | °C            |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 25.2          |  |  |  |  | 15.6          |  |  |  |  | 8.1 |  |  |  |  | 11.5 |  |  |  |  | 10.4 |  |  |  |  | 8.1 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0           |  |  |  |  | 0.0           |  |  |  |  | 0.0 |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  | 0.0 |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0           |  |  |  |  | 0.0           |  |  |  |  | 0.0 |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  | 0.0 |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  |                        |  |  |  |  |               |  |  |  |  |               |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |     |  |  |  |  |

| AREAS       |  |       |  |     |
|-------------|--|-------|--|-----|
| Gross Total |  | Glass |  | (%) |
| m²          |  | m²    |  |     |
| Floor       |  | 5     |  |     |
| Part        |  | 30    |  |     |
| ExFlr       |  | 0     |  |     |
| Roof        |  | 0     |  |     |
| Wall        |  | 0     |  |     |
| Total       |  |       |  |     |

|          |  |     |  |      |  |      |  |
|----------|--|-----|--|------|--|------|--|
| Main Htg |  | 0.0 |  | 11.5 |  | 25.9 |  |
| Aux Htg  |  | 0.0 |  | 0    |  | 0.0  |  |
| Preheat  |  | 0.0 |  | 0    |  | 0.0  |  |
| Reheat   |  | 0.0 |  | 11.5 |  | 24.0 |  |
| Humidif  |  | 0.0 |  | 0    |  | 0.0  |  |
| Opt Vent |  | 0.0 |  | 0    |  | 0.0  |  |
| Total    |  | 0.0 |  | 0    |  | 0.0  |  |



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| COOLING COIL PEAK |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |           |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|-------------------|--|--|--|--|-------------------------|--|--|--|--|----------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|-----------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:   |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 24  |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB              |  |  |  |  | Cooling   |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |
| Outside Air:      |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 21       |  |  |  |  | OADB: -5              |  |  |  |  | Plenum            |  |  |  |  | 24.3      |  |  |  |  | 21.9         |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Plenum                  |  |  |  |  | Net            |  |  |  |  | Space                 |  |  |  |  | Space Peak        |  |  |  |  | Coil Peak |  |  |  |  | Percent      |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Total          |  |  |  |  | Sensible              |  |  |  |  | Space Sens        |  |  |  |  | Tot Sens  |  |  |  |  | Of Total     |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | kW             |  |  |  |  | kW                    |  |  |  |  | kW                |  |  |  |  | kW        |  |  |  |  | kW           |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %</       |  |  |  |  |              |  |  |  |  |  |  |  |  |  |



Room Checksums

By GOCSA

CL0207 05 ASEO ACCES EX 4/25

| COOLING COIL PEAK |  |       |             |       |                         |       |          |       |          | CLG SPACE PEAK |       |          |          |            |                       |           |         |          |            | HEATING COIL PEAK |           |          |    |            |          |           |          |          |            | TEMPERATURES |           |         |          |            |    |           |          |    |          |          |    |
|-------------------|--|-------|-------------|-------|-------------------------|-------|----------|-------|----------|----------------|-------|----------|----------|------------|-----------------------|-----------|---------|----------|------------|-------------------|-----------|----------|----|------------|----------|-----------|----------|----------|------------|--------------|-----------|---------|----------|------------|----|-----------|----------|----|----------|----------|----|
| Peaked at Time:   |  |       |             |       | Mo/Hr: 7 / 15           |       |          |       |          | Mo/Hr: 7 / 24  |       |          |          |            | Mo/Hr: Heating Design |           |         |          |            | SADB              |           |          |    |            | Cooling  |           |          |          |            | Heating      |           |         |          |            |    |           |          |    |          |          |    |
| Outside Air:      |  |       |             |       | OADBWB/HR: 36 / 22 / 11 |       |          |       |          | OADB: 21       |       |          |          |            | OADB: -5              |           |         |          |            | Plenum            |           |          |    |            | 24.3     |           |          |          |            | 21.9         |           |         |          |            |    |           |          |    |          |          |    |
| Sens. + Lat.      |  | Space | Plenum      |       | Net                     |       | Percent  | Space |          | Percent        | Space |          | Percent  | Space Peak |                       | Coil Peak | Percent |          | Space Peak |                   | Coil Peak | Percent  |    | Space Peak |          | Coil Peak | Percent  |          | Space Peak |              | Coil Peak | Percent |          | Space Peak |    | Coil Peak | Percent  |    |          |          |    |
| Sens. + Lat.      |  | kW    | Sens.       | + Lat | kW                      | Total | Of Total | kW    | Sensible | Of Total       | kW    | Sensible | Of Total | kW         | Sensible              | Of Total  | kW      | Sensible | Of Total   | kW                | Sensible  | Of Total | kW | Sensible   | Of Total | kW        | Sensible | Of Total | kW         | Sensible     | Of Total  | kW      | Sensible | Of Total   | kW | Sensible  | Of Total | kW | Sensible | Of Total |    |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW    | Space    |                | kW    | Sensible |          | kW         | Space                 |           | kW      | Space    |            | kW                | Space     |          | kW | Space      |          | kW        | Space    |          | kW         | Space        |           | kW      | Space    |            | kW | Space     |          | kW | Space    |          | kW |
| Sens. + Lat.      |  | kW    | Sens. + Lat |       | kW                      | Net   |          | kW</  |          |                |       |          |          |            |                       |           |         |          |            |                   |           |          |    |            |          |           |          |          |            |              |           |         |          |            |    |           |          |    |          |          |    |



CL0207 06 SUCIO EX 4/25

| COOLING COIL PEAK            |  |                  |                       | CLG SPACE PEAK                        |                      |                   |                      | HEATING COIL PEAK              |                       |                      |              | TEMPERATURES |         |  |  |
|------------------------------|--|------------------|-----------------------|---------------------------------------|----------------------|-------------------|----------------------|--------------------------------|-----------------------|----------------------|--------------|--------------|---------|--|--|
| Peaked at Time: Outside Air: |  |                  |                       | Mo/Hr: 7 / 15 OADBWB/HR: 36 / 22 / 11 |                      |                   |                      | Mo/Hr: Heating Design OADB: -5 |                       |                      |              |              |         |  |  |
| Sens. + Lat. kW              |  | Space kW         | Plenum Sens. + Lat kW | Net Total kW                          | Percent Of Total (%) | Space Sensible kW | Percent Of Total (%) | Space Peak Space Sens kW       | Coil Peak Tot Sens kW | Percent Of Total (%) | SADB         | Cooling      | Heating |  |  |
| Envelope Loads               |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      |              |              |         |  |  |
| Skylite Solar                |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    |              | 12.8         | 25.8    |  |  |
| Skylite Cond                 |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    | Plenum       | 24.3         | 21.9    |  |  |
| Roof Cond                    |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    | Return       | 25.2         | 21.9    |  |  |
| Glass Solar                  |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    | Ret/OA       | 25.2         | 21.9    |  |  |
| Glass Cond                   |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    | Fn MtrTD     | 0.1          | 0.0     |  |  |
| Wall Cond                    |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    | Fn BidTD     | 0.3          | 0.0     |  |  |
| Partition                    |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    | Fn Frict     | 0.9          | 0.0     |  |  |
| Exposed Floor                |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    |              |              |         |  |  |
| Infiltration                 |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    |              |              |         |  |  |
| Sub Total ==>                |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    |              |              |         |  |  |
| Internal Loads               |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      |              |              |         |  |  |
| Lights                       |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    | Vent         | 0            | 0       |  |  |
| People                       |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    | Infil        | 0            | 0       |  |  |
| Misc                         |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    | Supply       | 0            | 0       |  |  |
| Sub Total ==>                |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    | MinStop/Rh   | 0            | 0       |  |  |
|                              |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      | Return       | 0            | 0       |  |  |
|                              |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      | Exhaust      | 0            | 0       |  |  |
|                              |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      | Rm Exh       | 0            | 0       |  |  |
|                              |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      | Auxil        | 0            | 0       |  |  |
| ENGINEERING CKS              |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      |              |              |         |  |  |
| Ceiling Load                 |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0                     | 0                    | % OA         | 0.0          | 0.0     |  |  |
| Ventilation Load             |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    | Lps/m²       | 0.05         | 0.05    |  |  |
| Adj Air Trans Heat           |  | 0                | 0.00                  | 0.00                                  | 0                    | 0                 | 0                    | 0                              | 0                     | 0                    | Lps/kW       | 394.89       |         |  |  |
| Dehumid. Ov Sizing           |  | 0.00             | 0.00                  | 0.00                                  | 0                    | 0.00              | 0                    | 0.00                           | 0.00                  | 0                    | m²/kW        | 7,855.60     | -0.83   |  |  |
| Ov/Undr Sizing               |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      | W/m²         | 0.13         |         |  |  |
| Exhaust Heat                 |  |                  | 0.00                  | 0.00                                  | 0                    |                   |                      | 0.00                           |                       |                      |              |              |         |  |  |
| Sup. Fan Heat                |  |                  | 0.00                  | 0.00                                  | 0                    |                   |                      |                                |                       |                      |              |              |         |  |  |
| Ret. Fan Heat                |  |                  | 0.00                  | 0.00                                  | 0                    |                   |                      |                                |                       |                      |              |              |         |  |  |
| Duct Heat Pkup               |  |                  | 0.00                  | 0.00                                  | 0                    |                   |                      |                                |                       |                      |              |              |         |  |  |
| Reheat at Design             |  |                  |                       | 0.00                                  | 0                    |                   |                      |                                |                       |                      |              |              |         |  |  |
| Grand Total ==>              |  | 0.00             | 0.00                  | 0.00                                  | 100.00               | 0.00              | 100.00               | 0.00                           | -0.01                 | 100.00               | No. People   | 0            |         |  |  |
| HEATING COIL SELECTION       |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      |              |              |         |  |  |
| Total Capacity kW            |  | Sens Cap. kW     |                       | Coil Airflow L/s                      | Enter °C             | DBWB/HR °C        | g/kg                 | Leave °C                       | DBWB/HR °C            | g/kg                 | AREAS        |              |         |  |  |
|                              |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      | Gross Total  |              |         |  |  |
|                              |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      | Glass m² (%) |              |         |  |  |
| Main Clg                     |  | 0.00             | 0.00                  | 0                                     | 25.2                 | 15.6              | 8.1                  | 11.5                           | 10.4                  | 8.1                  | Floor        |              |         |  |  |
| Aux Clg                      |  | 0.00             | 0.00                  | 0                                     | 0.0                  | 0.0               | 0.0                  | 0.0                            | 0.0                   | 0.0                  | Part         |              |         |  |  |
| Opt Vent                     |  | 0.00             | 0.00                  | 0                                     | 0.0                  | 0.0               | 0.0                  | 0.0                            | 0.0                   | 0.0                  | ExFlr        |              |         |  |  |
| Total                        |  | 0.00             |                       |                                       |                      |                   |                      |                                |                       |                      | Roof         |              |         |  |  |
|                              |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      | Wall         |              |         |  |  |
|                              |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      | Total        |              |         |  |  |
| HEATING COIL SELECTION       |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      |              |              |         |  |  |
| Capacity kW                  |  | Coil Airflow L/s |                       | Ent °C                                |                      | Lvg °C            |                      |                                |                       |                      |              |              |         |  |  |
|                              |  |                  |                       |                                       |                      |                   |                      |                                |                       |                      |              |              |         |  |  |
| Main Htg                     |  | 0.0              | 0                     | 11.5                                  | 25.8                 |                   |                      |                                |                       |                      |              |              |         |  |  |
| Aux Htg                      |  | 0.0              | 0                     | 0.0                                   | 0.0                  |                   |                      |                                |                       |                      |              |              |         |  |  |
| Preheat                      |  | 0.0              | 0                     | 0.0                                   | 0.0                  |                   |                      |                                |                       |                      |              |              |         |  |  |
| Reheat                       |  | 0.0              | 0                     | 11.5                                  | 24.0                 |                   |                      |                                |                       |                      |              |              |         |  |  |
| Humidif                      |  | 0.0              | 0                     | 0.0                                   | 0.0                  |                   |                      |                                |                       |                      |              |              |         |  |  |
| Opt Vent                     |  | 0.0              | 0                     | 0.0                                   | 0.0                  |                   |                      |                                |                       |                      |              |              |         |  |  |
| Total                        |  | 0.0              | 0                     | 0.0                                   | 0.0                  |                   |                      |                                |                       |                      |              |              |         |  |  |



Room Checksums

By GOCSA

CL0207 07 ASEO ACCES EX 4/25

| COOLING COIL PEAK               |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK            |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK      |  |  |  |  |             |  |  |  |  | TEMPERATURES       |  |  |  |  |                  |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|-----------------------------------|--|--|--|--|------------------------|--|--|--|--|-------------|--|--|--|--|--------------------|--|--|--|--|------------------|--|--|--|--|------------------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |  |  |  |  | Mo/Hr: 7 / 24<br>OADB: 21 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB                   |  |  |  |  | Cooling     |  |  |  |  | Heating            |  |  |  |  |                  |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | Plenum                                   |  |  |  |  | Net Total                 |  |  |  |  | Percent Of Total                  |  |  |  |  | Space Sensible         |  |  |  |  | Space Peak  |  |  |  |  | Coil Peak Tot Sens |  |  |  |  | Percent Of Total |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| kW                              |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | %                                 |  |  |  |  | kW                     |  |  |  |  | kW          |  |  |  |  | kW                 |  |  |  |  | %                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Envelope Loads                  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Envelope Loads         |  |  |  |  |             |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  | Envelope Loads         |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Skylite Solar                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Skylite Cond                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Roof Cond                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Glass Solar                     |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Glass Cond                      |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Wall Cond                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Partition                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Exposed Floor                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Infiltration                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Internal Loads                  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Internal Loads         |  |  |  |  |             |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  | Internal Loads         |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Lights                          |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| People                          |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Misc                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Ceiling Load                    |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Ceiling Load           |  |  |  |  |             |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  | Ceiling Load           |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Ventilation Load                |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | 0  |  |  |  |  | 0                         |  |  |  |  | 0                                 |  |  |  |  | 0                      |  |  |  |  | 0           |  |  |  |  | 0                  |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | -0.01       |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Reheat at Design                |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                   |  |  |  |  | 0.00        |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 100.00                            |  |  |  |  | 0.00                   |  |  |  |  | -0.01       |  |  |  |  | 100.00             |  |  |  |  |                  |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| ENGINEERING CKS                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | ENGINEERING CKS        |  |  |  |  |             |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  | ENGINEERING CKS        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| % OA                            |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                       |  |  |  |  | 0.0                               |  |  |  |  | 0.0                    |  |  |  |  | 0.0         |  |  |  |  | 0.0                |  |  |  |  | 0.0              |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Lps/m²                          |  |  |  |  | 0.05                                     |  |  |  |  | 0.05                      |  |  |  |  | 0.05                              |  |  |  |  | 0.05                   |  |  |  |  | 0.05        |  |  |  |  | 0.05               |  |  |  |  |                  |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Lps/kW                          |  |  |  |  | 394.45                                   |  |  |  |  | 394.45                    |  |  |  |  | 394.45                            |  |  |  |  | 394.45                 |  |  |  |  | 394.45      |  |  |  |  | 394.45             |  |  |  |  |                  |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| m²/kW                           |  |  |  |  | 7,847.76                                 |  |  |  |  | 7,847.76                  |  |  |  |  | 7,847.76                          |  |  |  |  | 7,847.76               |  |  |  |  | 7,847.76    |  |  |  |  | 7,847.76           |  |  |  |  |                  |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| W/m²                            |  |  |  |  | 0.13                                     |  |  |  |  | 0.13                      |  |  |  |  | 0.13                              |  |  |  |  | 0.13                   |  |  |  |  | 0.13        |  |  |  |  | 0.13               |  |  |  |  |                  |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| No. People                      |  |  |  |  | 0  |  |  |  |  | 0                         |  |  |  |  | 0                                 |  |  |  |  | 0                      |  |  |  |  | 0           |  |  |  |  | 0                  |  |  |  |  |                  |  |  |  |  |                        |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| HEATING COIL SELECTION          |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |             |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |     |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Total Capacity                  |  |  |  |  | Sens Cap.                                |  |  |  |  | Coil Airflow              |  |  |  |  | Enter DB/WB/HR                    |  |  |  |  | Leave DB/WB/HR         |  |  |  |  | Gross Total |  |  |  |  | Glass              |  |  |  |  | Capacity         |  |  |  |  | Coil Airflow           |  |  |  |  | Ent |  |  |  |  | Lvlg |  |  |  |  |      |  |  |  |  |
| kW                              |  |  |  |  | kW                                       |  |  |  |  | L/s                       |  |  |  |  | °C                                |  |  |  |  | °C                     |  |  |  |  | g/kg        |  |  |  |  | m²                 |  |  |  |  | kW               |  |  |  |  | L/s                    |  |  |  |  | °C  |  |  |  |  | m³/s |  |  |  |  |      |  |  |  |  |
| Main Clg                        |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 25.2                   |  |  |  |  | 15.6        |  |  |  |  | 8.1                |  |  |  |  | 6                |  |  |  |  | 0.0                    |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  | 25.9 |  |  |  |  |
| Aux Clg                         |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.0                    |  |  |  |  | 0.0         |  |  |  |  | 0.0                |  |  |  |  | 31               |  |  |  |  | 0.0                    |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent                        |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.0                    |  |  |  |  | 0.0         |  |  |  |  | 0.0                |  |  |  |  | 0                |  |  |  |  | 0.0                    |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| Total                           |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.0                    |  |  |  |  | 0.0         |  |  |  |  | 0                  |  |  |  |  | 0                |  |  |  |  | 0.0                    |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |



Room Checksums

By GOCSA

CL0207 08 PASILLO

| COOLING COIL PEAK            |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK                        |  |           |  |              | HEATING COIL PEAK              |                      |  |                          |  | TEMPERATURES          |  |                      |  |   |  |  |  |  |  |  |
|------------------------------|--|--|--|--|--|--|--|--|--|---------------------------------------|--|-----------|--|--------------|--------------------------------|----------------------|--|--------------------------|--|-----------------------|--|----------------------|--|---|--|--|--|--|--|--|
| Peaked at Time: Outside Air: |  |  |  |  |  |  |  |  |  | Mo/Hr: 7 / 15 OADBWB/Hr: 36 / 22 / 11 |  |           |  |              | Mo/Hr: Heating Design OADB: -5 |                      |  |                          |  | SADB Cooling Heating  |  |                      |  |   |  |  |  |  |  |  |
| Sens. + Lat. kW              |  |  |  |  |  |  |  |  |  | Space kW                              |  | Plenum kW |  | Net Total kW |                                | Percent Of Total (%) |  | Space Peak Space Sens kW |  | Coil Peak Tot Sens kW |  | Percent Of Total (%) |  | Plenum Return Ret/OA Fn MtrTD Fn BidTD Fn Frict |  |  |  |  |  |  |
| Envelope Loads               |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                                | 0                    |  | 0.00                     |  | 0.00                  |  | 0                    |  | 0.1 0.0 0.0 0.9                                 |  |  |  |  |  |  |
| Skylite Solar                |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                                | 0                    |  | 0.00                     |  | 0.00                  |  | 0                    |  | 24.3 21.9 21.9                                  |  |  |  |  |  |  |
| Skylite Cond                 |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                                | 0                    |  | 0.00                     |  | 0.00                  |  | 0                    |  | 36.5 -4.9                                       |  |  |  |  |  |  |
| Roof Cond                    |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                                | 0                    |  | 0.00                     |  | 0.00                  |  | 0                    |  | 0.1 0.0 0.0 0.0                                 |  |  |  |  |  |  |
| Glass Solar                  |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                                | 0                    |  | 0.00                     |  | 0.00                  |  | 0                    |  | 0.3 0.0 0.0 0.0                                 |  |  |  |  |  |  |
| Glass Cond                   |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                                | 0                    |  | 0.00                     |  | 0.00                  |  | 0                    |  | 0.9 0.0 0.0 0.0                                 |  |  |  |  |  |  |
| Wall Cond                    |  |  |  |  |  |  |  |  |  | 0.01                                  |  | 0.00      |  | 0.01         |                                | 0                    |  | 0.02                     |  | -0.06                 |  | -0.08                |  | 1   |  |  |  |  |  |  |
| Partition                    |  |  |  |  |  |  |  |  |  | -0.03                                 |  | 0.00      |  | -0.03        |                                | 0                    |  | 0.26                     |  | -1.00                 |  | -1.00                |  | 12  |  |  |  |  |  |  |
| Exposed Floor                |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                                | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0   |  |  |  |  |  |  |
| Infiltration                 |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                                | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0   |  |  |  |  |  |  |
| Sub Total ==>                |  |  |  |  |  |  |  |  |  | -0.02                                 |  | 0.00      |  | -0.02        |                                | 0                    |  | 0.28                     |  | -1.06                 |  | -1.08                |  | 13  |  |  |  |  |  |  |
| Internal Loads               |  |  |  |  |  |  |  |  |  | 0.69                                  |  | 0.86      |  | 12           |                                | 32                   |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0   |  |  |  |  |  |  |
| Lights                       |  |  |  |  |  |  |  |  |  | 2.01                                  |  | 2.01      |  | 29           |                                | 51                   |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0   |  |  |  |  |  |  |
| People                       |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0            |                                | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0   |  |  |  |  |  |  |
| Misc                         |  |  |  |  |  |  |  |  |  | 2.70                                  |  | 2.87      |  | 41           |                                | 83                   |  | 1.79                     |  | 0.00                  |  | 0.00                 |  | 0   |  |  |  |  |  |  |
| Sub Total ==>                |  |  |  |  |  |  |  |  |  | 0.07                                  |  | -0.07     |  | 0.00         |                                | 4                    |  | 0.08                     |  | -0.03                 |  | 0                    |  | 0   |  |  |  |  |  |  |
| Ceiling Load                 |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 3.96      |  | 57           |                                | 0                    |  | 0.00                     |  | 0.00                  |  | -5.14                |  | 60  |  |  |  |  |  |  |
| Ventilation Load             |  |  |  |  |  |  |  |  |  | 0                                     |  | 0         |  | 0            |                                | 0                    |  | 0                        |  | 0                     |  | 0                    |  | 0   |  |  |  |  |  |  |
| Adj Air Trans Heat           |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 0         |  | 0            |                                | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0   |  |  |  |  |  |  |
| Dehumid. Ov Sizing           |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0            |                                | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0   |  |  |  |  |  |  |
| OvUndr Sizing                |  |  |  |  |  |  |  |  |  | -0.24                                 |  | -0.24     |  | -3           |                                | 0                    |  | 0.00                     |  | 0.02                  |  | 0.02                 |  | 0   |  |  |  |  |  |  |
| Exhaust Heat                 |  |  |  |  |  |  |  |  |  | 0.25                                  |  | 0.25      |  | 4            |                                | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0   |  |  |  |  |  |  |
| Sup. Fan Heat                |  |  |  |  |  |  |  |  |  | 0.17                                  |  | 0.17      |  | 2            |                                | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0   |  |  |  |  |  |  |
| Ret. Fan Heat                |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0            |                                | 0                    |  | 0.00                     |  | -2.40                 |  | -2.40                |  | 28  |  |  |  |  |  |  |
| Duct Heat Pkup               |  |  |  |  |  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0            |                                | 0                    |  | 0.00                     |  | -0.03                 |  | -0.03                |  | 0   |  |  |  |  |  |  |
| Reheat at Design             |  |  |  |  |  |  |  |  |  | 2.75                                  |  | 0.03      |  | 6.99         |                                | 100.00               |  | 2.15                     |  | -1.09                 |  | -8.63                |  | 100.00  |  |  |  |  |  |  |
| Grand Total ==>              |  |  |  |  |  |  |  |  |  | 2.75                                  |  | 0.03      |  | 6.99         |                                | 100.00               |  | 2.15                     |  | -1.09                 |  | -8.63                |  | 100.00  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |              |  |                  |  |                  |  |                  |  | HEATING COIL SELECTION |  |          |  |             |  |                  |  |        |  |        |  |
|------------------------|--|--------------|--|------------------|--|------------------|--|------------------|--|------------------------|--|----------|--|-------------|--|------------------|--|--------|--|--------|--|
| Total Capacity kW      |  | Sens Cap. kW |  | Coil Airflow L/s |  | Enter DBWB/Hr °C |  | Leave DBWB/Hr °C |  | Gross Total m²         |  | Glass m² |  | Capacity kW |  | Coil Airflow L/s |  | Ent °C |  | Lvg °C |  |
| 7.01                   |  | 4.52         |  | 167              |  | 36.5             |  | 11.5             |  | 123                    |  |          |  | -3.1        |  | 167              |  | 11.5   |  | 27.7   |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 299                    |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | -3.1        |  | 167              |  | -4.9   |  | 11.5   |  |
| 7.01                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 6                      |  |          |  | -2.4        |  | 167              |  | 11.5   |  | 24.0   |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 167              |  | 0.5    |  | 7.2    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | -9.3        |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  | 0                      |  |          |  | 0.0         |  | 0                |  | 0.0    |  | 0.0    |  |
| 0.00                   |  | 0.00         |  | 0                |  | 0.0              |  | 0.0              |  |                        |  |          |  |             |  |                  |  |        |  |        |  |



Room Checksums

By GOCSA

CL0207 09 ALMACEN EX 4/25

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK     |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |           |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|-----------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 24      |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB              |  |  |  |  | Cooling   |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 21           |  |  |  |  | OADB: -5              |  |  |  |  | Plenum            |  |  |  |  | 24.3      |  |  |  |  | 25.8         |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net                |  |  |  |  | Space                 |  |  |  |  | Space Peak        |  |  |  |  | Coil Peak |  |  |  |  | Percent      |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | Total              |  |  |  |  | Sensible              |  |  |  |  | Space Sens        |  |  |  |  | Tot Sens  |  |  |  |  | Of Total     |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                |  |  |  |  | kW        |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  | Envelope Loads     |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  |                         |  |  |  |  | Skylite Solar      |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  |                         |  |  |  |  | Skylite Cond       |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  |                         |  |  |  |  | Roof Cond          |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  |                         |  |  |  |  | Glass Solar        |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  |                         |  |  |  |  | Glass Cond         |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  |                         |  |  |  |  | Wall Cond          |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  |                         |  |  |  |  | Partition          |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  |                         |  |  |  |  | Exposed Floor      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  |                         |  |  |  |  | Infiltration       |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  | Internal Loads     |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  |                         |  |  |  |  | Lights             |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  |                         |  |  |  |  | People             |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  |                         |  |  |  |  | Misc               |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  | Ceiling Load       |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  |                         |  |  |  |  | Ventilation Load   |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  |                         |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  |                         |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  |                         |  |  |  |  | Exhaust Heat       |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  |                         |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  |                         |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  |                         |  |  |  |  | Duct Heat Pkup     |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | -0.01 |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  |                         |  |  |  |  | Reheat at Design   |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                         |  |  |  |  | Grand Total ==>    |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | -0.01 |  |  |  |  |  |  |  |  |  | 100.00 |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |       |  |  |  |  |       |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|-------|--|--|--|--|-------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Enter |  |  |  |  | Leave |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | °C    |  |  |  |  | °C    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 25.2  |  |  |  |  | 15.6  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |       |  |  |  |  |



## Room Checksums

By GOCSA

CL0207 10 LIMPIEZA EX 4/25

| COOLING COIL PEAK            |  |                     |  |           |  |                |  |                  |  | CLG SPACE PEAK                         |  |                       |  | HEATING COIL PEAK      |  |                  |  | TEMPERATURES                   |  |              |  |            |  |
|------------------------------|--|---------------------|--|-----------|--|----------------|--|------------------|--|--|--|-----------------------|--|------------------------|--|------------------|--|--------------------------------|--|--------------|--|------------|--|
| Peaked at Time: Outside Air: |  |                     |  |           |  |                |  |                  |  | Mo/Hr: 7 / 15 OADB/WB/HR: 36 / 22 / 11 |  |                       |  | Mo/Hr: 7 / 24 OADB: 21 |  |                  |  | Mo/Hr: Heating Design OADB: -5 |  |              |  |            |  |
| Space Sens. + Lat.           |  | Plenum Sens. + Lat. |  | Net Total |  | Space Sensible |  | Percent Of Total |  | Space Sensible                         |  | Space Peak Space Sens |  | Coil Peak Tot Sens     |  | Percent Of Total |  | SADB                           |  | Cooling      |  | Heating    |  |
| kW                           |  | kW                  |  | kW        |  | kW             |  | %                |  | kW                                     |  | kW                    |  | kW                     |  | %                |  |                                |  |              |  |            |  |
| Envelope Loads               |  |                     |  |           |  |                |  |                  |  | Envelope Loads                         |  |                       |  |                        |  |                  |  |                                |  |              |  |            |  |
| Skylite Solar                |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  | 12.8         |  | 25.8       |  |
| Skylite Cond                 |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  | 24.3         |  | 21.9       |  |
| Roof Cond                    |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  | 25.2         |  | 21.9       |  |
| Glass Solar                  |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  | 25.2         |  | 21.9       |  |
| Glass Cond                   |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  | Fn MtrTD     |  | 0.0        |  |
| Wall Cond                    |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  | Fn BidTD     |  | 0.0        |  |
| Partition                    |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  | Fn Frict     |  | 0.9        |  |
| Exposed Floor                |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  |              |  |            |  |
| Infiltration                 |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  |              |  |            |  |
| Sub Total ==>                |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  |              |  |            |  |
| Internal Loads               |  |                     |  |           |  |                |  |                  |  | Internal Loads                         |  |                       |  |                        |  |                  |  |                                |  |              |  |            |  |
| Lights                       |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  | Vent         |  | 0          |  |
| People                       |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  | Infil        |  | 0          |  |
| Misc                         |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  | Supply       |  | 0          |  |
| Sub Total ==>                |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  | MinStop/Rh   |  | 0          |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  |                  |  |                                |  | Return       |  | 0          |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  |                  |  |                                |  | Exhaust      |  | 0          |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  |                  |  |                                |  | Rm Exh       |  | 0          |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  |                  |  |                                |  | Auxil        |  | 0          |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  |                  |  |                                |  |              |  |            |  |
| Ceiling Load                 |  |                     |  |           |  |                |  |                  |  | Ceiling Load                           |  |                       |  |                        |  |                  |  |                                |  |              |  |            |  |
| Ventilation Load             |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  |              |  |            |  |
| Adj Air Trans Heat           |  | 0                   |  | 0.00      |  | 0              |  | 0                |  | 0                                      |  | 0                     |  | 0                      |  | 0                |  |                                |  |              |  |            |  |
| Dehumid. Ov Sizing           |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  |              |  |            |  |
| Ov/Undr Sizing               |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  |              |  |            |  |
| Exhaust Heat                 |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  |              |  |            |  |
| Sup. Fan Heat                |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  |              |  |            |  |
| Ret. Fan Heat                |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  |              |  |            |  |
| Duct Heat PkUp               |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | -0.01                  |  | 0                |  |                                |  |              |  |            |  |
| Reheat at Design             |  | 0.00                |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | 0.00                   |  | 0                |  |                                |  |              |  |            |  |
| Grand Total ==>              |  | 0.00                |  | 0.00      |  | 0.00           |  | 100.00           |  | 0.00                                   |  | 100.00                |  | -0.01                  |  | 100.00           |  |                                |  |              |  |            |  |
| ENGINEERING CKS              |  |                     |  |           |  |                |  |                  |  | ENGINEERING CKS                        |  |                       |  |                        |  |                  |  |                                |  |              |  |            |  |
| % OA                         |  | 0.0                 |  | 0.0       |  | 0.0            |  | 0.0              |  | 0.0                                    |  | 0.0                   |  | 0.0                    |  | 0.0              |  |                                |  |              |  |            |  |
| Lps/m²                       |  | 0.05                |  | 0.00      |  | 0.00           |  | 0.05             |  | 0.00                                   |  | 0.05                  |  | 0.05                   |  | 0.05             |  |                                |  |              |  |            |  |
| Lps/kW                       |  | 394.73              |  | 0.00      |  | 0.00           |  | 394.73           |  | 0.00                                   |  | 394.73                |  | 394.73                 |  | 394.73           |  |                                |  |              |  |            |  |
| m²/kW                        |  | 7,852.86            |  | 0.00      |  | 0.00           |  | 7,852.86         |  | 0.00                                   |  | 7,852.86              |  | 7,852.86               |  | 7,852.86         |  |                                |  |              |  |            |  |
| W/m²                         |  | 0.13                |  | 0.00      |  | 0.00           |  | 0.13             |  | 0.00                                   |  | 0.13                  |  | 0.13                   |  | 0.13             |  |                                |  |              |  |            |  |
| No. People                   |  | 0                   |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                   |  | 0.00                  |  | -0.01                  |  | 0                |  |                                |  |              |  |            |  |
| HEATING COIL SELECTION       |  |                     |  |           |  |                |  |                  |  | HEATING COIL SELECTION                 |  |                       |  |                        |  |                  |  |                                |  |              |  |            |  |
| Total Capacity               |  | kW                  |  | Sens Cap. |  | Coil Airflow   |  | L/s              |  | Enter DB/WB/HR °C                      |  | Leave DB/WB/HR °C     |  | g/kg                   |  | Gross Total      |  | Capacity                       |  | Coil Airflow |  | Ent Lvg °C |  |
| Main Clg                     |  | 0.00                |  | 0.00      |  | 0              |  | 0                |  | 25.2                                   |  | 15.6                  |  | 8.1                    |  | 6                |  | 0.0                            |  | 0            |  | 11.5       |  |
| Aux Clg                      |  | 0.00                |  | 0.00      |  | 0              |  | 0                |  | 0.0                                    |  | 0.0                   |  | 0.0                    |  | 32               |  | 0.0                            |  | 0            |  | 0.0        |  |
| Opt Vent                     |  | 0.00                |  | 0.00      |  | 0              |  | 0                |  | 0.0                                    |  | 0.0                   |  | 0.0                    |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
| Total                        |  | 0.00                |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 11.5       |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 24.0       |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  | 0            |  | 0.0        |  |
|                              |  |                     |  |           |  |                |  |                  |  |  |  |                       |  |                        |  | 0                |  | 0.0                            |  |              |  |            |  |



Room Checksums

By GOCSA

CL0207 11 ALMACEN FARMACIA

| COOLING COIL PEAK            |                    |                     |           | CLG SPACE PEAK                        |                |                  |            | HEATING COIL PEAK              |                  |          |         | TEMPERATURES |        |         |     |
|------------------------------|--------------------|---------------------|-----------|---------------------------------------|----------------|------------------|------------|--------------------------------|------------------|----------|---------|--------------|--------|---------|-----|
| Peaked at Time: Outside Air: |                    |                     |           | Mo/Hr: 7 / 15 OADBWB/Hr: 36 / 22 / 11 |                |                  |            | Mo/Hr: Heating Design OADB: -5 |                  |          |         |              |        |         |     |
| Envelope Loads               | Space Sens. + Lat. | Plenum Sens. + Lat. | Net Total | Percent Of Total                      | Space Sensible | Percent Of Total | Space Peak | Coil Peak Tot Sens             | Percent Of Total | SADB     | Cooling | Heating      |        |         |     |
|                              | kW                 | kW                  | kW        | (%)                                   | kW             | (%)              | kW         | kW                             | (%)              |          |         |              |        |         |     |
|                              | 0.00               | 0.00                | 0.00      | 0                                     | 0.00           | 0                | 0.00       | 0.00                           | 0                |          | 21.1    | 24.0         |        |         |     |
|                              | 0.00               | 0.00                | 0.00      | 0                                     | 0.00           | 0                | 0.00       | 0.00                           | 0                | Plenum   | 24.3    | 21.9         |        |         |     |
|                              | 0.00               | 0.00                | 0.00      | 0                                     | 0.00           | 0                | 0.00       | 0.00                           | 0                | Return   | 25.2    | 21.9         |        |         |     |
|                              | 0.00               | 0.00                | 0.00      | 0                                     | 0.00           | 0                | 0.00       | 0.00                           | 0                | Ret/OA   | 36.5    | -4.9         |        |         |     |
|                              | 0.00               | 0.00                | 0.00      | 0                                     | 0.00           | 0                | 0.00       | 0.00                           | 0                | Fn MtrTD | 0.1     | 0.0          |        |         |     |
|                              | 0.00               | 0.00                | 0.00      | 0                                     | 0.00           | 0                | 0.00       | 0.00                           | 0                | Fn BidTD | 0.3     | 0.0          |        |         |     |
|                              | 0.00               | 0.00                | 0.00      | 0                                     | 0.00           | 0                | 0.00       | 0.00                           | 0                | Fn Frict | 0.9     | 0.0          |        |         |     |
|                              | 0.00               | 0.00                | 0.00      | 0                                     | 0.00           | 0                | 0.00       | 0.00                           | 0                |          |         |              |        |         |     |
| AIRFLOWS                     |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | Cooling      |        | Heating |     |
| Vent                         |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 100          | 0      | 100     | 0   |
| Infil                        |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 0            | 0      | 0       | 0   |
| Supply                       |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 100          | 100    | 100     | 100 |
| MinStop/Rh                   |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 100          | 100    | 100     | 100 |
| Return                       |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 100          | 100    | 100     | 100 |
| Exhaust                      |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 100          | 100    | 100     | 100 |
| Rm Exh                       |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 0            | 0      | 0       | 0   |
| Auxil                        |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 0            | 0      | 0       | 0   |
| ENGINEERING CKS              |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | Cooling      |        | Heating |     |
| % OA                         |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 100.0        | 100.0  |         |     |
| Lps/m²                       |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 4.50         | 4.50   |         |     |
| Lps/kW                       |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 33.32        | 33.32  |         |     |
| m²/kW                        |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 7.40         | 7.40   |         |     |
| W/m²                         |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 134.98       | 134.98 |         |     |
| No. People                   |                    |                     |           |                                       |                |                  |            |                                |                  |          |         | 2            | 2      |         |     |

| TEMPERATURES |         |         |  |
|--------------|---------|---------|--|
| SADB         | Cooling | Heating |  |
| Plenum       | 21.1    | 24.0    |  |
| Return       | 24.3    | 21.9    |  |
| Ret/OA       | 25.2    | 21.9    |  |
| Fn MtrTD     | 36.5    | -4.9    |  |
| Fn BidTD     | 0.1     | 0.0     |  |
| Fn Frict     | 0.3     | 0.0     |  |
|              | 0.9     | 0.0     |  |

| AIRFLOWS   |         |         |  |
|------------|---------|---------|--|
| Vent       | Cooling | Heating |  |
| Infil      | 100     | 100     |  |
| Supply     | 0       | 0       |  |
| MinStop/Rh | 100     | 100     |  |
| Return     | 100     | 100     |  |
| Exhaust    | 100     | 100     |  |
| Rm Exh     | 0       | 0       |  |
| Auxil      | 0       | 0       |  |

| ENGINEERING CKS |         |         |   |
|-----------------|---------|---------|---|
| % OA            | Cooling | Heating |   |
| Lps/m²          | 100.0   | 100.0   |   |
| Lps/kW          | 4.50    | 4.50    |   |
| m²/kW           | 33.32   |         |   |
| W/m²            | 7.40    | -232.27 |   |
| No. People      | 134.98  |         | 2 |

| COOLING COIL SELECTION |           |              |                |                |
|------------------------|-----------|--------------|----------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR | Leave DB/WB/HR |
|                        | kW        | L/s          | °C             | °C             |
| Main Clg               | 3.01      | 100          | 36.5           | 19.8           |
| Aux Clg                | 0.00      | 0            | 0.0            | 0.0            |
| Opt Vent               | 0.00      | 0            | 0.0            | 0.0            |
| Total                  | 3.01      |              |                |                |

| AREAS       |    | Glass |  |
|-------------|----|-------|--|
| Gross Total | m² | (%)   |  |
| Floor       | 22 |       |  |
| Part        | 63 |       |  |
| ExFlr       | 0  | 0     |  |
| Roof        | 0  | 0     |  |
| Wall        | 0  | 0     |  |

| HEATING COIL SELECTION |              |     |      |
|------------------------|--------------|-----|------|
| Capacity               | Coil Airflow | Ent | Lvg  |
|                        | kW           | L/s | °C   |
| Main Htg               | -0.5         | 100 | 19.8 |
| Aux Htg                | 0.0          | 0   | 0.0  |
| Preheat                | -2.8         | 100 | -4.9 |
| Reheat                 | -0.5         | 100 | 19.8 |
| Humidif                | -1.9         | 100 | 0.5  |
| Opt Vent               | 0.0          | 0   | 0.0  |
| Total                  | -5.2         |     |      |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums reported as 8883 of 194



Room Checksums

By GOCSA

CL0207 12 OFICIO

| COOLING COIL PEAK               |  |  |  |  |  |  |              |  |       | CLG SPACE PEAK            |          |  |          |  |                                   |  |             |  |           | HEATING COIL PEAK |          |  |              |  |         |  |         |  |  | TEMPERATURES |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--------------|--|-------|---------------------------|----------|--|----------|--|-----------------------------------|--|-------------|--|-----------|-------------------|----------|--|--------------|--|---------|--|---------|--|--|--------------|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |  |              |  |       | Mo/Hr: 7 / 24<br>OADB: 21 |          |  |          |  | Mo/Hr: Heating Design<br>OADB: -5 |  |             |  |           | SADB              |          |  |              |  | Cooling |  | Heating |  |  |              |  |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | Space                                    |  | Plenum       |  | Net   |                           | Percent  |  | Space    |  | Percent                           |  | Space Peak  |  | Coil Peak |                   | Percent  |  | Return       |  |         |  |         |  |  |              |  |  |  |  |  |
| kW                              |  |  |  |  | kW                                       |  | kW           |  | kW    |                           | %        |  | Sensible |  | Of Total                          |  | kW          |  | Tot Sens  |                   | Of Total |  | Plenum       |  |         |  |         |  |  |              |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                           |          |  |          |  |                                   |  |             |  |           |                   |          |  |              |  |         |  |         |  |  |              |  |  |  |  |  |
| Envelope Loads                  |  |  |  |  |  |  |              |  |       | Envelope Loads            |          |  |          |  |                                   |  |             |  |           |                   |          |  |              |  |         |  |         |  |  |              |  |  |  |  |  |
| Skylite Solar                   |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 24.0         |  |         |  |         |  |  |              |  |  |  |  |  |
| Skylite Cond                    |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 21.9         |  |         |  |         |  |  |              |  |  |  |  |  |
| Roof Cond                       |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 21.9         |  |         |  |         |  |  |              |  |  |  |  |  |
| Glass Solar                     |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | -4.9         |  |         |  |         |  |  |              |  |  |  |  |  |
| Glass Cond                      |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 0.0          |  |         |  |         |  |  |              |  |  |  |  |  |
| Wall Cond                       |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 0.0          |  |         |  |         |  |  |              |  |  |  |  |  |
| Partition                       |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 0.0          |  |         |  |         |  |  |              |  |  |  |  |  |
| Exposed Floor                   |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 0.0          |  |         |  |         |  |  |              |  |  |  |  |  |
| Infiltration                    |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 0.0          |  |         |  |         |  |  |              |  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 0.0          |  |         |  |         |  |  |              |  |  |  |  |  |
| Internal Loads                  |  |  |  |  |  |  |              |  |       | Internal Loads            |          |  |          |  |                                   |  |             |  |           |                   |          |  |              |  |         |  |         |  |  |              |  |  |  |  |  |
| Lights                          |  |  |  |  | 0.07                                     |  | 0.02         |  | 0.09  |                           | 5        |  | 0.07     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 58           |  |         |  |         |  |  |              |  |  |  |  |  |
| People                          |  |  |  |  | 0.21                                     |  | 0.00         |  | 0.21  |                           | 12       |  | 0.11     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 58           |  |         |  |         |  |  |              |  |  |  |  |  |
| Misc                            |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 58           |  |         |  |         |  |  |              |  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.28                                     |  | 0.02         |  | 0.30  |                           | 17       |  | 0.18     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 58           |  |         |  |         |  |  |              |  |  |  |  |  |
| Ceiling Load                    |  |  |  |  |  |  |              |  |       | Ceiling Load              |          |  |          |  |                                   |  |             |  |           |                   |          |  |              |  |         |  |         |  |  |              |  |  |  |  |  |
| Ventilation Load                |  |  |  |  | 0.01                                     |  | -0.01        |  | 0.00  |                           | 0        |  | 0.01     |  | 0                                 |  | 0.00        |  | 0         |                   | 0        |  | 100.0        |  |         |  |         |  |  |              |  |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | 0  |  | 0.00         |  | 1.38  |                           | 79       |  | 0.00     |  | 0                                 |  | 0.00        |  | -1.79     |                   | 86       |  | 4.50         |  |         |  |         |  |  |              |  |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | 0.00                                     |  | 0.00         |  | 0     |                           | 0        |  | 0        |  | 0                                 |  | 0.00        |  | 0         |                   | 0        |  | 4.50         |  |         |  |         |  |  |              |  |  |  |  |  |
| OvUndr Sizing                   |  |  |  |  | 0.00                                     |  | -0.08        |  | -0.08 |                           | -5       |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.01      |                   | 0        |  | 33.32        |  |         |  |         |  |  |              |  |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | 0.00                                     |  | 0.09         |  | 0.09  |                           | 5        |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 33.32        |  |         |  |         |  |  |              |  |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | 0.00                                     |  | 0.06         |  | 0.06  |                           | 3        |  | 0.00     |  | 0                                 |  | 0.00        |  | 0.00      |                   | 0        |  | 7.40         |  |         |  |         |  |  |              |  |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | -0.28     |                   | 14       |  | -232.27      |  |         |  |         |  |  |              |  |  |  |  |  |
| Duct Heat PkUp                  |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | -0.01     |                   | 0        |  | 134.98       |  |         |  |         |  |  |              |  |  |  |  |  |
| Reheat at Design                |  |  |  |  | 0.00                                     |  | 0.00         |  | 0.00  |                           | 0        |  | 0.00     |  | 0                                 |  | 0.00        |  | -0.01     |                   | 0        |  | -232.27      |  |         |  |         |  |  |              |  |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | 0.29                                     |  | -0.01        |  | 1.75  |                           | 100.00   |  | 0.19     |  | 100.00                            |  | 0.00        |  | -2.07     |                   | 100.00   |  | No. People   |  |         |  |         |  |  |              |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                           |          |  |          |  |                                   |  |             |  |           |                   |          |  | 1            |  |         |  |         |  |  |              |  |  |  |  |  |
| COOLING COIL SELECTION          |  |  |  |  |  |  |              |  |       | HEATING COIL SELECTION    |          |  |          |  |                                   |  |             |  |           | ENGINEERING CKS   |          |  |              |  |         |  |         |  |  |              |  |  |  |  |  |
| Total Capacity                  |  |  |  |  | Sens Cap.                                |  | Coil Airflow |  | Enter |                           | DB/WB/HR |  | Leave    |  | DB/WB/HR                          |  | Gross Total |  | Glass     |                   | Capacity |  | Coil Airflow |  | Ent     |  |         |  |  |              |  |  |  |  |  |
| kW                              |  |  |  |  | kW                                       |  | L/s          |  | °C    |                           | °C       |  | °C       |  | g/kg                              |  | m²          |  | L/s       |                   | kW       |  | L/s          |  | °C      |  |         |  |  |              |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                           |          |  |          |  |                                   |  |             |  |           |                   |          |  |              |  |         |  |         |  |  |              |  |  |  |  |  |
| Main Clg                        |  |  |  |  | 1.74                                     |  | 58           |  | 36.5  |                           | 21.6     |  | 11.5     |  | 19.8                              |  | 13          |  | Main Htg  |                   | -0.3     |  | 58           |  | 19.8    |  |         |  |  |              |  |  |  |  |  |
| Aux Clg                         |  |  |  |  | 0.00                                     |  | 0            |  | 0.0   |                           | 0.0      |  | 0.0      |  | 0.0                               |  | 47          |  | Aux Htg   |                   | 0.0      |  | 0            |  | 0.0     |  |         |  |  |              |  |  |  |  |  |
| Opt Vent                        |  |  |  |  | 0.00                                     |  | 0            |  | 0.0   |                           | 0.0      |  | 0.0      |  | 0.0                               |  | 0           |  | Preheat   |                   | -1.6     |  | 58           |  | -4.9    |  |         |  |  |              |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                           |          |  |          |  |                                   |  |             |  | Reheat    |                   | -0.3     |  | 58           |  | 19.8    |  |         |  |  |              |  |  |  |  |  |
| Total                           |  |  |  |  | 1.74                                     |  |              |  |       |                           |          |  |          |  |                                   |  | 0           |  | Humidif   |                   | -1.1     |  | 58           |  | 0.5     |  |         |  |  |              |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                           |          |  |          |  |                                   |  | 0           |  | Opt Vent  |                   | 0.0      |  | 0            |  | 0.0     |  |         |  |  |              |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                           |          |  |          |  |                                   |  | -3.0        |  |           |                   | -3.0     |  |              |  | 0.0     |  |         |  |  |              |  |  |  |  |  |



Room Checksums

By GOCSA

CL0207 13 ALMACEN LENCERIA

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK     |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |           |  |  |  |  | TEMPERATURES       |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------|--|--|--|--|-----------------------|--|--|--|--|--------------------|--|--|--|--|-----------|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 24      |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB               |  |  |  |  | Cooling   |  |  |  |  | Heating            |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 21           |  |  |  |  | OADB: -5              |  |  |  |  | Plenum             |  |  |  |  | 24.3      |  |  |  |  | 24.0               |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net Total          |  |  |  |  | Space Sensible        |  |  |  |  | Space Peak         |  |  |  |  | Coil Peak |  |  |  |  | Percent            |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                      |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                 |  |  |  |  | kW        |  |  |  |  | Of Total           |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | Total              |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.       |  |  |  |  | Tot Sens  |  |  |  |  | %                  |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                      |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                 |  |  |  |  | kW        |  |  |  |  | %                  |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  | Envelope Loads     |  |  |  |  |                       |  |  |  |  | Envelope Loads     |  |  |  |  |           |  |  |  |  | Envelope Loads     |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  |                         |  |  |  |  | Skylite Solar      |  |  |  |  |                       |  |  |  |  | Skylite Solar      |  |  |  |  |           |  |  |  |  | Skylite Solar      |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  |                         |  |  |  |  | Skylite Cond       |  |  |  |  |                       |  |  |  |  | Skylite Cond       |  |  |  |  |           |  |  |  |  | Skylite Cond       |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  |                         |  |  |  |  | Roof Cond          |  |  |  |  |                       |  |  |  |  | Roof Cond          |  |  |  |  |           |  |  |  |  | Roof Cond          |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  |                         |  |  |  |  | Glass Solar        |  |  |  |  |                       |  |  |  |  | Glass Solar        |  |  |  |  |           |  |  |  |  | Glass Solar        |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  |                         |  |  |  |  | Glass Cond         |  |  |  |  |                       |  |  |  |  | Glass Cond         |  |  |  |  |           |  |  |  |  | Glass Cond         |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  |                         |  |  |  |  | Wall Cond          |  |  |  |  |                       |  |  |  |  | Wall Cond          |  |  |  |  |           |  |  |  |  | Wall Cond          |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  |                         |  |  |  |  | Partition          |  |  |  |  |                       |  |  |  |  | Partition          |  |  |  |  |           |  |  |  |  | Partition          |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  |                         |  |  |  |  | Exposed Floor      |  |  |  |  |                       |  |  |  |  | Exposed Floor      |  |  |  |  |           |  |  |  |  | Exposed Floor      |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  |                         |  |  |  |  | Infiltration       |  |  |  |  |                       |  |  |  |  | Infiltration       |  |  |  |  |           |  |  |  |  | Infiltration       |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>      |  |  |  |  |           |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  | Internal Loads     |  |  |  |  |                       |  |  |  |  | Internal Loads     |  |  |  |  |           |  |  |  |  | Internal Loads     |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  |                         |  |  |  |  | Lights             |  |  |  |  |                       |  |  |  |  | Lights             |  |  |  |  |           |  |  |  |  | Lights             |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  |                         |  |  |  |  | People             |  |  |  |  |                       |  |  |  |  | People             |  |  |  |  |           |  |  |  |  | People             |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  |                         |  |  |  |  | Misc               |  |  |  |  |                       |  |  |  |  | Misc               |  |  |  |  |           |  |  |  |  | Misc               |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>      |  |  |  |  |           |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  | Ceiling Load       |  |  |  |  |                       |  |  |  |  | Ceiling Load       |  |  |  |  |           |  |  |  |  | Ceiling Load       |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  |                         |  |  |  |  | Ventilation Load   |  |  |  |  |                       |  |  |  |  | Ventilation Load   |  |  |  |  |           |  |  |  |  | Ventilation Load   |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  |                         |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                       |  |  |  |  | Adj Air Trans Heat |  |  |  |  |           |  |  |  |  | Adj Air Trans Heat |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                       |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |           |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  |                         |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |                       |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |           |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  |                         |  |  |  |  | Exhaust Heat       |  |  |  |  |                       |  |  |  |  | Exhaust Heat       |  |  |  |  |           |  |  |  |  | Exhaust Heat       |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  |                         |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                       |  |  |  |  | Sup. Fan Heat      |  |  |  |  |           |  |  |  |  | Sup. Fan Heat      |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  |                         |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                       |  |  |  |  | Ret. Fan Heat      |  |  |  |  |           |  |  |  |  | Ret. Fan Heat      |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  |                         |  |  |  |  | Duct Heat Pkup     |  |  |  |  |                       |  |  |  |  | Duct Heat Pkup     |  |  |  |  |           |  |  |  |  | Duct Heat Pkup     |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  |                         |  |  |  |  | Reheat at Design   |  |  |  |  |                       |  |  |  |  | Reheat at Design   |  |  |  |  |           |  |  |  |  | Reheat at Design   |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                         |  |  |  |  | Grand Total ==>    |  |  |  |  |                       |  |  |  |  | Grand Total ==>    |  |  |  |  |           |  |  |  |  | Grand Total ==>    |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Lvg  |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C   |  |  |  |  |
| 1.73                   |  |  |  |  | 1.09      |  |  |  |  | 58                     |  |  |  |  | -0.3     |  |  |  |  | 58           |  |  |  |  | 19.8 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -1.6     |  |  |  |  | 58           |  |  |  |  | -4.9 |  |  |  |  |
| 1.73                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -0.3     |  |  |  |  | 58           |  |  |  |  | 19.8 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -1.1     |  |  |  |  | 58           |  |  |  |  | 0.5  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |      |  |  |  |  |



CL0207 14 LIMPIEZA EX 4/25

| COOLING COIL PEAK            |                    |                    |           | CLG SPACE PEAK                        |                |                  |                    | HEATING COIL PEAK              |                    |                  |                 | TEMPERATURES |         |            |          |         |
|------------------------------|--------------------|--------------------|-----------|---------------------------------------|----------------|------------------|--------------------|--------------------------------|--------------------|------------------|-----------------|--------------|---------|------------|----------|---------|
| Peaked at Time: Outside Air: |                    |                    |           | Mo/Hr: 7 / 15 OADBWB/Hr: 36 / 22 / 11 |                |                  |                    | Mo/Hr: Heating Design OADB: -5 |                    |                  |                 |              |         |            |          |         |
| Envelope Loads               | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total                      | Space Sensible | Percent Of Total | Envelope Loads     | Space Peak Space Sens          | Coil Peak Tot Sens | Percent Of Total | SADB            | Cooling      | Heating |            |          |         |
|                              | kW                 | kW                 | kW        | (%)                                   | kW             | (%)              |                    | kW                             | kW                 | (%)              |                 |              |         |            |          |         |
|                              | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Skylite Solar      | 0.00                           | 0.00               | 0                |                 | 12.8         | 25.8    |            |          |         |
|                              | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Skylite Cond       | 0.00                           | 0.00               | 0                | Plenum          | 24.3         | 21.9    |            |          |         |
|                              | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Roof Cond          | 0.00                           | 0.00               | 0                | Return          | 25.2         | 21.9    |            |          |         |
|                              | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Glass Solar        | 0.00                           | 0.00               | 0                | Ret/OA          | 25.2         | 21.9    |            |          |         |
|                              | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Glass Cond         | 0.00                           | 0.00               | 0                | Fn MtrTD        | 0.1          | 0.0     |            |          |         |
|                              | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Glass Cond         | 0.00                           | 0.00               | 0                | Fn BidTD        | 0.3          | 0.0     |            |          |         |
|                              | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Wall Cond          | 0.00                           | 0.00               | 0                | Fn Frict        | 0.9          | 0.0     |            |          |         |
|                              | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Partition          | 0.00                           | 0.00               | 0                |                 |              |         |            |          |         |
| Exposed Floor                | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Exposed Floor      | 0.00                           | 0.00               | 0                | AIRFLOWS        |              |         |            |          |         |
| Infiltration                 | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Infiltration       | 0.00                           | 0.00               | 0                |                 |              |         | Vent       | Cooling  | Heating |
| 0.00                         | 0.00               | 0.00               | 0         | 0.00                                  | 0              | Sub Total ==>    | 0.00               | 0.00                           | 0                  | Infil            |                 |              |         | 0          | 0        |         |
|                              |                    |                    |           |                                       |                |                  |                    |                                |                    | Supply           |                 |              |         | 0          | 0        |         |
| Internal Loads               | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Internal Loads     | 0.00                           | 0.00               | 0                | MinStop/Rh      | 0            | 0       |            |          |         |
| Lights                       | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Lights             | 0.00                           | 0.00               | 0                | Return          | 0            | 0       |            |          |         |
| People                       | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | People             | 0.00                           | 0.00               | 0                | Exhaust         | 0            | 0       |            |          |         |
| Misc                         | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Misc               | 0.00                           | 0.00               | 0                | Rm Exh          | 0            | 0       |            |          |         |
| Sub Total ==>                | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Sub Total ==>      | 0.00                           | 0.00               | 0                | Auxil           | 0            | 0       |            |          |         |
| Ceiling Load                 | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Ceiling Load       | 0.00                           | 0.00               | 0                | ENGINEERING CKS |              |         |            |          |         |
| Ventilation Load             | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Ventilation Load   | 0.00                           | 0.00               | 0                |                 |              |         | % OA       | Cooling  | Heating |
| Adj Air Trans Heat           | 0                  | 0                  | 0         | 0                                     | 0              | 0                | Adj Air Trans Heat | 0                              | 0                  | 0                |                 |              |         | 0.0        | 0.0      | 0.0     |
| Dehumid. Ov Sizing           | 0.00               |                    | 0.00      | 0                                     | 0.00           | 0                | Ov/Undr Sizing     | 0.00                           | 0.00               | 0                |                 |              |         | Lps/m²     | 0.05     | 0.05    |
| Exhaust Heat                 |                    | 0.00               | 0.00      | 0                                     |                | 0                | Exhaust Heat       | 0.00                           | 0.00               | 0                |                 |              |         | Lps/kW     | 394.73   |         |
| Sup. Fan Heat                |                    |                    | 0.00      | 0                                     |                | 0                | OA Preheat Diff.   | 0.00                           | 0.00               | 0                |                 |              |         | m²/kW      | 7,852.86 |         |
| Ret. Fan Heat                |                    | 0.00               | 0.00      | 0                                     |                | 0                | RA Preheat Diff.   | 0.00                           | -0.01              | 0                |                 |              |         | W/m²       | 0.13     | -0.83   |
| Duct Heat Pkup               |                    | 0.00               | 0.00      | 0                                     |                | 0                | System Plenum Heat | 0.00                           | 0.00               | 0                |                 |              |         | No. People | 0        |         |
| Reheat at Design             |                    |                    | 0.00      | 0                                     |                | 0                | Grand Total ==>    | 0.00                           | -0.01              | 100.00           |                 |              |         |            |          |         |
| Grand Total ==>              | 0.00               | 0.00               | 0.00      | 100.00                                | 0.00           | 100.00           | Grand Total ==>    | 0.00                           | -0.01              | 100.00           |                 |              |         |            |          |         |

| COOLING COIL SELECTION |              |                  |          |                        |
|------------------------|--------------|------------------|----------|------------------------|
| Total Capacity kW      | Sens Cap. kW | Coil Airflow L/s | Enter °C | Leave DB/WB/HR °C g/kg |
| Main Clg               | 0.00         | 0                | 25.2     | 15.6 8.1               |
| Aux Clg                | 0.00         | 0                | 0.0      | 0.0 0.0                |
| Opt Vent               | 0.00         | 0                | 0.0      | 0.0 0.0                |
| Total                  | 0.00         |                  |          |                        |

| AREAS       |       | Glass m² | (%) |
|-------------|-------|----------|-----|
| Gross Total | Floor | 6        |     |
|             | Part  | 32       |     |
|             | ExFlr | 0        |     |
|             | Roof  | 0        | 0   |
|             | Wall  | 0        | 0   |

| HEATING COIL SELECTION |                  |        |        |
|------------------------|------------------|--------|--------|
| Capacity kW            | Coil Airflow L/s | Ent °C | Lvg °C |
| Main Htg               | 0.0              | 0      | 11.5   |
| Aux Htg                | 0.0              | 0      | 0.0    |
| Preheat                | 0.0              | 0      | 0.0    |
| Reheat                 | 0.0              | 0      | 11.5   |
| Humidif                | 0.0              | 0      | 0.0    |
| Opt Vent               | 0.0              | 0      | 0.0    |
| Total                  | 0.0              |        |        |



Room Checksums

By GOCSA

CL0207 15 ALMACEN EX 4/25

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK     |  |  |  |  |                    |  |  |  |  | TEMPERATURES     |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|----------------|--|--|--|--|-----------------------|--|--|--|--|-----------------------|--|--|--|--|--------------------|--|--|--|--|------------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 24  |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB                  |  |  |  |  | Cooling            |  |  |  |  | Heating          |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 21       |  |  |  |  | OADB: -5              |  |  |  |  | Plenum                |  |  |  |  | 24.3               |  |  |  |  | 21.9             |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net Total      |  |  |  |  | Percent Of Total      |  |  |  |  | Space Peak Space Sens |  |  |  |  | Coil Peak Tot Sens |  |  |  |  | Percent Of Total |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                      |  |  |  |  | kW             |  |  |  |  | %                     |  |  |  |  | kW                    |  |  |  |  | kW                 |  |  |  |  | %                |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  |                |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  |                |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  |                |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  | 0                       |  |  |  |  | 0              |  |  |  |  | 0                     |  |  |  |  | 0                     |  |  |  |  | 0                  |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  |                |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  | 0.00                    |  |  |  |  | 0              |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  | 0.00                    |  |  |  |  | 0              |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  | 0.00                    |  |  |  |  | 0              |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | -0.01                 |  |  |  |  | -0.01              |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 100.00                |  |  |  |  | 0.00                  |  |  |  |  | -0.01              |  |  |  |  | 100.00           |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 11.5 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |



Room Checksums

By GOCSA

CL0208 01 CONTROL CONTROL AREA SILLONES

| COOLING COIL PEAK               |  |       |        |        |  |             |                    |                |        | CLG SPACE PEAK            |             |              |      |  | HEATING COIL PEAK                 |  |         |  |  | TEMPERATURES |  |  |  |  |
|---------------------------------|--|-------|--------|--------|--|-------------|--------------------|----------------|--------|---------------------------|-------------|--------------|------|--|-----------------------------------|--|---------|--|--|--------------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |       |        |        | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |             |                    |                |        | Mo/Hr: 9 / 18<br>OADB: 26 |             |              |      |  | Mo/Hr: Heating Design<br>OADB: -5 |  |         |  |  |              |  |  |  |  |
| Sens. + Lat.                    |  | Space | Plenum | Net    | Percent                                  | Space       | Percent            | Envelope Loads |        | Space Peak                | Coil Peak   | Percent      | SADB |  | Cooling                           |  | Heating |  |  |              |  |  |  |  |
| kW                              |  | kW    | kW     | kW     | Of Total (%)                             | Sensible kW | Of Total (%)       | kW             |        | Space Sens kW             | Tot Sens kW | Of Total (%) |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   | 0.00   | 0  | 0.00        | 0                  | Skylite Solar  |        | 0.00                      | 0.00        | 0            |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   | 0.00   | 0  | 0.00        | 0                  | Skylite Cond   |        | 0.00                      | 0.00        | 0            |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   | 0.00   | 0  | 0.00        | 0                  | Roof Cond      |        | 0.00                      | 0.00        | 0            |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 3.90                            |  | 3.90  | 0.00   | 3.90   | 9  | 7.36        | 48                 | Glass Solar    |        | 0.00                      | 0.00        | 0            |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.42                            |  | 0.00  | 0.00   | 0.42   | 1  | 0.14        | 1                  | Glass Cond     |        | -1.38                     | -1.38       | 2            |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.17                            |  | 0.05  | 0.00   | 0.22   | 0  | -0.02       | 0                  | Wall Cond      |        | -1.02                     | -1.34       | 2            |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   | 0.00   | 0  | 0.00        | 0                  | Partition      |        | 0.00                      | 0.00        | 0            |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   | 0.00   | 0  | 0.00        | 0                  | Exposed Floor  |        | 0.00                      | 0.00        | 0            |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   | 0.00   | 0  | 0.00        | 0                  | Infiltration   |        | 0.00                      | 0.00        | 0            |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 4.49                            |  | 0.05  | 0.00   | 4.54   | 10                                       | 7.48        | 49                 | Sub Total ==>  |        | -2.40                     | -2.72       | 5            |      |  |                                   |  |         |  |  |              |  |  |  |  |
| Internal Loads                  |  |       |        |        |  |             |                    |                |        |                           |             |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 2.57                            |  | 0.64  | 3.21   | 7      | 2.57                                     | 17          | Lights             |                | 0.00   | 0.00                      | 0           |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 3.30                            |  | 0.00  | 3.30   | 7      | 1.83                                     | 12          | People             |                | 0.00   | 0.00                      | 0           |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 3.30                            |  | 0.00  | 3.30   | 7      | 3.30                                     | 22          | Misc               |                | 0.00   | 0.00                      | 0           |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 9.17                            |  | 0.64  | 9.81   | 22     | 7.70                                     | 50          | Sub Total ==>      |                | 0.00   | 0.00                      | 0           |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| Ceiling Load                    |  |       |        |        |  |             |                    |                |        |                           |             |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.18                            |  | -0.18 | 0.00   | 0      | 0.16                                     | 1           | Ceiling Load       |                | -0.07  | 0                         | 0           |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.00                            |  | 0.00  | 28.39  | 64     | 0.00                                     | 0           | Ventilation Load   |                | 0.00   | -38.92                    | 67          |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0                               |  | 0     | 0      | 0      | 0  | 0           | Adj Air Trans Heat |                | 0      | 0                         | 0           |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.00                            |  | 0     | 0      | 0      | 0  | 0.00        | 0                  | Ov/Undr Sizing |        | 0.00                      | 0.00        | 0            |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.00                            |  | -1.79 | 0.00   | -1.79  | -4                                       | 0.00        | 0                  | Exhaust Heat   |        | 0.00                      | 0.18        | 0            |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 1.87                            |  | 1.31  | 1.87   | 4      | 1.87                                     | 4           | OA Preheat Diff.   |                | 0.00   | 0.00                      | 0           |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 1.31                            |  | 0.00  | 1.31   | 3      | 1.31                                     | 3           | RA Preheat Diff.   |                | 0.00   | 0.00                      | 0           |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   | 0      | 0.00                                     | 0           | Additional Reheat  |                | -17.04 | -17.04                    | 29          |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   | 0      | 0.00                                     | 0           | System Plenum Heat |                | 0.08   | 0.08                      | 0           |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| 13.84                           |  | 0.03  | 44.13  | 100.00 | 15.34                                    | 100.00      | Grand Total ==>    |                | -2.47  | -58.42                    | 100.00      |              |      |  |                                   |  |         |  |  |              |  |  |  |  |
| Grand Total ==>                 |  |       |        |        |  |             |                    |                |        |                           |             |              |      |  | No. People                        |  |         |  |  |              |  |  |  |  |
|                                 |  |       |        |        |  |             |                    |                |        |                           |             |              |      |  | 25                                |  |         |  |  |              |  |  |  |  |



Room Checksums

By GOCSA

CL0208 02 ASEO ACCES EX 4/25

| COOLING COIL PEAK |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |           |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|-------------------|--|--|--|--|-------------------------|--|--|--|--|----------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|-----------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:   |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 3   |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB              |  |  |  |  | Cooling   |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |
| Outside Air:      |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 18       |  |  |  |  | OADB: -5              |  |  |  |  | Plenum            |  |  |  |  | 24.3      |  |  |  |  | 25.9         |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Plenum                  |  |  |  |  | Net            |  |  |  |  | Space                 |  |  |  |  | Space Peak        |  |  |  |  | Coil Peak |  |  |  |  | Percent      |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Total          |  |  |  |  | Sensible              |  |  |  |  | Space Sens        |  |  |  |  | Tot Sens  |  |  |  |  | Of Total     |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | kW             |  |  |  |  | kW                    |  |  |  |  | kW                |  |  |  |  | kW        |  |  |  |  | kW           |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | %              |  |  |  |  | %                     |  |  |  |  | %                 |  |  |  |  | %         |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  |                         |  |  |  |  |                |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |



Room Checksums

By GOCSA

CL0208 03 PASILLO

| COOLING COIL PEAK               |  |  |  |  |  |  |              |  |       | CLG SPACE PEAK           |          |  |          |  | HEATING COIL PEAK                 |  |           |  |          | TEMPERATURES               |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--------------|--|-------|--------------------------|----------|--|----------|--|-----------------------------------|--|-----------|--|----------|----------------------------|--|--|--|--|-------|--|--|--|--|-------|--|--|--|--|--------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 15<br>OADBWB/Hr: 36 / 22 / 11 |  |              |  |       | Mo/Hr: 7 / 2<br>OADB: 19 |          |  |          |  | Mo/Hr: Heating Design<br>OADB: -5 |  |           |  |          | SADB<br>Cooling<br>Heating |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | Space                                    |  | Plenum       |  | Net   |                          | Percent  |  | Space    |  | Space Peak                        |  | Coil Peak |  | Percent  |                            | SADB<br>Cooling<br>Heating                                     |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | Sens. + Lat.                             |  | Sens. + Lat. |  | Total |                          | Of Total |  | Sensible |  | Space Sens                        |  | Tot Sens  |  | Of Total |                            | Plenum<br>Return<br>Ret/OA<br>Fn MtrTD<br>Fn BidTD<br>Fn Frict |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| kW                              |  |  |  |  | kW                                       |  | kW           |  | kW    |                          | %        |  | kW       |  | kW                                |  | kW        |  | %        |                            | 24.3<br>21.9<br>21.9<br>-4.9<br>0.0<br>0.0<br>0.0              |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Envelope Loads                  |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Envelope Loads                    |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Solar                   |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Skylite Solar                     |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Cond                    |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Skylite Cond                      |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Roof Cond                       |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Roof Cond                         |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Glass Solar                     |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Glass Solar                       |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Glass Cond                      |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Glass Cond                        |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Wall Cond                       |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Wall Cond                         |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Partition                       |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Partition                         |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Exposed Floor                   |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Exposed Floor                     |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Infiltration                    |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Infiltration                      |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Sub Total ==>                     |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Internal Loads                  |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Internal Loads                    |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Lights                          |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Lights                            |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| People                          |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | People                            |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Misc                            |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Misc                              |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Sub Total ==>                     |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ceiling Load                    |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Ceiling Load                      |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ventilation Load                |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Ventilation Load                  |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Adj Air Trans Heat                |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Dehumid. Ov Sizing                |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Ov/Undr Sizing                    |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Exhaust Heat                    |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Exhaust Heat                      |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | OA Preheat Diff.                  |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | RA Preheat Diff.                  |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Additional Reheat                 |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Reheat at Design                |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | System Plenum Heat                |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Grand Total ==>                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  | Grand Total ==>                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 2.74                            |  |  |  |  | 0.04                                     |  |              |  |       | 6.47                     |          |  |          |  | 100.00                            |  |           |  |          | 1.87                       |  |  |  |  | -0.09 |  |  |  |  | -6.60 |  |  |  |  | 100.00 |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |              |  |       |                          |          |  |          |  |                                   |  |           |  |          |                            |  |  |  |  |       |  |  |  |  |       |  |  |  |  |        |  |  |  |  |  |  |  |  |  |



Room Checksums

By GOCSA

CL0208 04 VEST ASCSUCIO EX 4/50

| COOLING COIL PEAK            |  |  |  |  | CLG SPACE PEAK                        |  |  |  |  | HEATING COIL PEAK              |  |  |  |  | TEMPERATURES              |  |  |  |  |
|------------------------------|--|--|--|--|---------------------------------------|--|--|--|--|--------------------------------|--|--|--|--|---------------------------|--|--|--|--|
| Peaked at Time: Outside Air: |  |  |  |  | Mo/Hr: 7 / 15 OADBWB/Hr: 36 / 22 / 11 |  |  |  |  | Mo/Hr: Heating Design OADB: -5 |  |  |  |  | SADB Cooling Heating 25.8 |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  | Plenum 24.3 21.9          |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  | Return 25.2 21.9          |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  | Ret/OA 25.2 21.9          |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  | Fn MtrTD 0.1 0.0          |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  | Fn BidTD 0.3 0.0          |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  | Fn Frict 0.9 0.0          |  |  |  |  |
| Envelope Loads               |  |  |  |  | Envelope Loads                        |  |  |  |  |                                |  |  |  |  | AIRFLOWS                  |  |  |  |  |
| Skylite Solar                |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  | Cooling Heating           |  |  |  |  |
| Skylite Cond                 |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  | Vent 0 0                  |  |  |  |  |
| Roof Cond                    |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  | Infil 0 0                 |  |  |  |  |
| Glass Solar                  |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  | Supply 1 1                |  |  |  |  |
| Glass Cond                   |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  | MinStop/Rh 1 1            |  |  |  |  |
| Wall Cond                    |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  | Return 1 1                |  |  |  |  |
| Partition                    |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  | Exhaust 0 0               |  |  |  |  |
| Exposed Floor                |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  | Rm Exh 0 0                |  |  |  |  |
| Infiltration                 |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  | Auxil 0 0                 |  |  |  |  |
| Sub Total ==>                |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  |                           |  |  |  |  |
| Internal Loads               |  |  |  |  | Internal Loads                        |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
| Lights                       |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  |                           |  |  |  |  |
| People                       |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  |                           |  |  |  |  |
| Misc                         |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  |                           |  |  |  |  |
| Sub Total ==>                |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  |                           |  |  |  |  |
| Ceiling Load                 |  |  |  |  | 0.01                                  |  |  |  |  | -0.01                          |  |  |  |  | ENGINEERING CKS           |  |  |  |  |
| Ventilation Load             |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                           |  |  |  |  | Cooling Heating           |  |  |  |  |
| Adj Air Trans Heat           |  |  |  |  | 0                                     |  |  |  |  | 0                              |  |  |  |  | % OA 0.0 0.0              |  |  |  |  |
| Dehumid. Ov Sizing           |  |  |  |  | 0                                     |  |  |  |  | 0                              |  |  |  |  |                           |  |  |  |  |
| Ov/Undr Sizing               |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                           |  |  |  |  | Lps/m² 0.05 0.05          |  |  |  |  |
| Exhaust Heat                 |  |  |  |  | 0                                     |  |  |  |  | 0.00                           |  |  |  |  | Lps/kW 396.45 0.05        |  |  |  |  |
| Sup. Fan Heat                |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                           |  |  |  |  |                           |  |  |  |  |
| Ret. Fan Heat                |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                           |  |  |  |  |                           |  |  |  |  |
| Duct Heat PkUp               |  |  |  |  | 0.00                                  |  |  |  |  | -0.02                          |  |  |  |  | m²/kW 7,552.11 -0.86      |  |  |  |  |
| Reheat at Design             |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                           |  |  |  |  | W/m² 0.13                 |  |  |  |  |
| Grand Total ==>              |  |  |  |  | 0.01                                  |  |  |  |  | -0.01                          |  |  |  |  | No. People 0              |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |
|                              |  |  |  |  |                                       |  |  |  |  |                                |  |  |  |  |                           |  |  |  |  |



CL0208 05 VESTASCLIMPIO

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK     |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |          |  |  |  |  | TEMPERATURES       |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------|--|--|--|--|-----------------------|--|--|--|--|--------------------|--|--|--|--|----------|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 3       |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB               |  |  |  |  | Cooling  |  |  |  |  | Heating            |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 18           |  |  |  |  | OADB: -5              |  |  |  |  | Plenum             |  |  |  |  | 21.1     |  |  |  |  | 24.0               |  |  |  |  |  |  |  |  |  |
| Space              |  |  |  |  | Net                     |  |  |  |  | Space              |  |  |  |  | Space Peak            |  |  |  |  | Coil Peak          |  |  |  |  | Return   |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Total                   |  |  |  |  | Sensible           |  |  |  |  | Tot Sens              |  |  |  |  | Tot Sens           |  |  |  |  | Ret/OA   |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                      |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                 |  |  |  |  | 36.5     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Percent            |  |  |  |  | Percent                 |  |  |  |  | Percent            |  |  |  |  | Percent               |  |  |  |  | Percent            |  |  |  |  | -4.9     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Of Total           |  |  |  |  | Of Total                |  |  |  |  | Of Total           |  |  |  |  | Of Total              |  |  |  |  | Of Total           |  |  |  |  | Of Total |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| %                  |  |  |  |  | %                       |  |  |  |  | %                  |  |  |  |  | %                     |  |  |  |  | %                  |  |  |  |  | %        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  | Envelope Loads     |  |  |  |  |                       |  |  |  |  | Envelope Loads     |  |  |  |  |          |  |  |  |  | Envelope Loads     |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  |                         |  |  |  |  | Skylite Solar      |  |  |  |  |                       |  |  |  |  | Skylite Solar      |  |  |  |  |          |  |  |  |  | Skylite Solar      |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  |                         |  |  |  |  | Skylite Cond       |  |  |  |  |                       |  |  |  |  | Skylite Cond       |  |  |  |  |          |  |  |  |  | Skylite Cond       |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  |                         |  |  |  |  | Roof Cond          |  |  |  |  |                       |  |  |  |  | Roof Cond          |  |  |  |  |          |  |  |  |  | Roof Cond          |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  |                         |  |  |  |  | Glass Solar        |  |  |  |  |                       |  |  |  |  | Glass Solar        |  |  |  |  |          |  |  |  |  | Glass Solar        |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  |                         |  |  |  |  | Glass Cond         |  |  |  |  |                       |  |  |  |  | Glass Cond         |  |  |  |  |          |  |  |  |  | Glass Cond         |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  |                         |  |  |  |  | Wall Cond          |  |  |  |  |                       |  |  |  |  | Wall Cond          |  |  |  |  |          |  |  |  |  | Wall Cond          |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  |                         |  |  |  |  | Partition          |  |  |  |  |                       |  |  |  |  | Partition          |  |  |  |  |          |  |  |  |  | Partition          |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  |                         |  |  |  |  | Exposed Floor      |  |  |  |  |                       |  |  |  |  | Exposed Floor      |  |  |  |  |          |  |  |  |  | Exposed Floor      |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  |                         |  |  |  |  | Infiltration       |  |  |  |  |                       |  |  |  |  | Infiltration       |  |  |  |  |          |  |  |  |  | Infiltration       |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>      |  |  |  |  |          |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  | Internal Loads     |  |  |  |  |                       |  |  |  |  | Internal Loads     |  |  |  |  |          |  |  |  |  | Internal Loads     |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  |                         |  |  |  |  | Lights             |  |  |  |  |                       |  |  |  |  | Lights             |  |  |  |  |          |  |  |  |  | Lights             |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  |                         |  |  |  |  | People             |  |  |  |  |                       |  |  |  |  | People             |  |  |  |  |          |  |  |  |  | People             |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  |                         |  |  |  |  | Misc               |  |  |  |  |                       |  |  |  |  | Misc               |  |  |  |  |          |  |  |  |  | Misc               |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>      |  |  |  |  |          |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  | Ceiling Load       |  |  |  |  |                       |  |  |  |  | Ceiling Load       |  |  |  |  |          |  |  |  |  | Ceiling Load       |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  |                         |  |  |  |  | Ventilation Load   |  |  |  |  |                       |  |  |  |  | Ventilation Load   |  |  |  |  |          |  |  |  |  | Ventilation Load   |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  |                         |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                       |  |  |  |  | Adj Air Trans Heat |  |  |  |  |          |  |  |  |  | Adj Air Trans Heat |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                       |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |          |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  |                         |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |                       |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |          |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  |                         |  |  |  |  | Exhaust Heat       |  |  |  |  |                       |  |  |  |  | Exhaust Heat       |  |  |  |  |          |  |  |  |  | Exhaust Heat       |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  |                         |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                       |  |  |  |  | Sup. Fan Heat      |  |  |  |  |          |  |  |  |  | Sup. Fan Heat      |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  |                         |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                       |  |  |  |  | Ret. Fan Heat      |  |  |  |  |          |  |  |  |  | Ret. Fan Heat      |  |  |  |  |  |  |  |  |  |
| Duct Heat PkUp     |  |  |  |  |                         |  |  |  |  | Duct Heat PkUp     |  |  |  |  |                       |  |  |  |  | Duct Heat PkUp     |  |  |  |  |          |  |  |  |  | Duct Heat PkUp     |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  |                         |  |  |  |  | Reheat at Design   |  |  |  |  |                       |  |  |  |  | Reheat at Design   |  |  |  |  |          |  |  |  |  | Reheat at Design   |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                         |  |  |  |  | Grand Total ==>    |  |  |  |  |                       |  |  |  |  | Grand Total ==>    |  |  |  |  |          |  |  |  |  | Grand Total ==>    |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Lvg  |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C   |  |  |  |  |
| 1.63                   |  |  |  |  | 1.03      |  |  |  |  | 54                     |  |  |  |  | -0.3     |  |  |  |  | 54           |  |  |  |  | 19.8 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -1.5     |  |  |  |  | 54           |  |  |  |  | -4.9 |  |  |  |  |
| 1.63                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -0.3     |  |  |  |  | 54           |  |  |  |  | 19.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 54           |  |  |  |  | 0.5  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |      |  |  |  |  |



Room Checksums

By GOCSA

CL0208 06 IT EX 4/25

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK     |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |           |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|-----------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 3       |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB              |  |  |  |  | Cooling   |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 18           |  |  |  |  | OADB: -5              |  |  |  |  | Plenum            |  |  |  |  | 24.3      |  |  |  |  | 25.8         |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net                |  |  |  |  | Space Sensible        |  |  |  |  | Space Peak        |  |  |  |  | Coil Peak |  |  |  |  | Percent      |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | Total              |  |  |  |  | Sens. + Lat.          |  |  |  |  | Space Sens        |  |  |  |  | Tot Sens  |  |  |  |  | Of Total     |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                |  |  |  |  | kW        |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  | Envelope Loads     |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  |                         |  |  |  |  | Skylite Solar      |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  |                         |  |  |  |  | Skylite Cond       |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  |                         |  |  |  |  | Roof Cond          |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  |                         |  |  |  |  | Glass Solar        |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  |                         |  |  |  |  | Glass Cond         |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  |                         |  |  |  |  | Wall Cond          |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  |                         |  |  |  |  | Partition          |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  |                         |  |  |  |  | Exposed Floor      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  |                         |  |  |  |  | Infiltration       |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  | Internal Loads     |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  |                         |  |  |  |  | Lights             |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  |                         |  |  |  |  | People             |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  |                         |  |  |  |  | Misc               |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  | Ceiling Load       |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  |                         |  |  |  |  | Ventilation Load   |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  |                         |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  |                         |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  |                         |  |  |  |  | Exhaust Heat       |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  |                         |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  |                         |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  |                         |  |  |  |  | Duct Heat Pkup     |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | -0.01 |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  |                         |  |  |  |  | Reheat at Design   |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | 0     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                         |  |  |  |  | Grand Total ==>    |  |  |  |  |                       |  |  |  |  | 0.01              |  |  |  |  |           |  |  |  |  | -0.01        |  |  |  |  |  |  |  |  |  | 0.00  |  |  |  |  |  |  |  |  |  | -0.01 |  |  |  |  |  |  |  |  |  | 100.00 |  |  |  |  |  |  |  |  |  |

|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |               |  |  |  |  |               |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|---------------|--|--|--|--|---------------|--|--|--|--|-------|--|--|--|--|-------|--|--|--|--|-------|--|--|--|--|-------|--|--|--|--|
| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |               |  |  |  |  |               |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Enter DBWB/HR |  |  |  |  | Leave DBWB/HR |  |  |  |  | Lvg   |  |  |  |  |       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | °C            |  |  |  |  | °C            |  |  |  |  | L/s   |  |  |  |  | °C    |  |  |  |  |       |  |  |  |  |       |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 1                      |  |  |  |  | 25.2          |  |  |  |  | 15.6          |  |  |  |  | 8.1   |  |  |  |  | 1     |  |  |  |  | 11.5  |  |  |  |  | 25.8  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0           |  |  |  |  | 0.0           |  |  |  |  | 0.0   |  |  |  |  | 0     |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0           |  |  |  |  | 0.0           |  |  |  |  | 0.0   |  |  |  |  | 0     |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0           |  |  |  |  | 0.0           |  |  |  |  | 0.0   |  |  |  |  | 1     |  |  |  |  | 11.5  |  |  |  |  | 24.0  |  |  |  |  |
| Total                  |  |  |  |  | Total     |  |  |  |  | Total                  |  |  |  |  | Total         |  |  |  |  | Total         |  |  |  |  | Total |  |  |  |  | Total |  |  |  |  | Total |  |  |  |  | Total |  |  |  |  |



## Room Checksums

By GOC SA

**CL0208 07 ALMACEN GENERAL**

| COOLING COIL PEAK  |  |  |  |  |                          |  |  |  |  | CLG SPACE PEAK |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK     |  |  |  |  |                    |  |  |  |  | TEMPERATURES     |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|--------------------------|--|--|--|--|----------------|--|--|--|--|-----------------------|--|--|--|--|-----------------------|--|--|--|--|--------------------|--|--|--|--|------------------|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15            |  |  |  |  | Mo/Hr: 7 / 3   |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB                  |  |  |  |  | Cooling            |  |  |  |  | Heating          |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADB/WB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 18       |  |  |  |  | OADB: -5              |  |  |  |  | Plenum                |  |  |  |  | 21.1               |  |  |  |  | 24.0             |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Space Sens. + Lat. |  |  |  |  | Plenum Sens. + Lat.      |  |  |  |  | Net Total      |  |  |  |  | Space Sensible        |  |  |  |  | Space Peak Space Sens |  |  |  |  | Coil Peak Tot Sens |  |  |  |  | Percent Of Total |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                       |  |  |  |  | kW             |  |  |  |  | kW                    |  |  |  |  | kW                    |  |  |  |  | kW                 |  |  |  |  | %                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                          |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Envelope Loads        |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  | 0.00                     |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  | 0.00                     |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  | 0.00                     |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  | 0.00                     |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  | 0.00                     |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  | 0.00                     |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  | 0.00                     |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  | 0.00                     |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  | 0.00                     |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.00                     |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                          |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Internal Loads        |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  | 0.12                     |  |  |  |  | 0.15           |  |  |  |  | 0.12                  |  |  |  |  | 0                     |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  | 0.36                     |  |  |  |  | 0.36           |  |  |  |  | 0.20                  |  |  |  |  | 0                     |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  | 0.00                     |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.48                     |  |  |  |  | 0.51           |  |  |  |  | 0.32                  |  |  |  |  | 0                     |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                          |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Ceiling Load          |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.01               |  |  |  |  | -0.01                    |  |  |  |  | 0.00           |  |  |  |  | 0.02                  |  |  |  |  | -0.01                 |  |  |  |  | 0                  |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  |                          |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Ventilation Load      |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  | 0.00                     |  |  |  |  | 2.37           |  |  |  |  | 0.00                  |  |  |  |  | 0.00                  |  |  |  |  | -3.08              |  |  |  |  | 87               |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  |                          |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Adj Air Trans Heat    |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0                  |  |  |  |  | 0                        |  |  |  |  | 0              |  |  |  |  | 0                     |  |  |  |  | 0                     |  |  |  |  | 0                  |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                          |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Dehumid. Ov Sizing    |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  | 0.00                     |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  |                          |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Ov/Undr Sizing        |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -0.14              |  |  |  |  | -0.14                    |  |  |  |  | -0.14          |  |  |  |  | -0.14                 |  |  |  |  | 0.00                  |  |  |  |  | 0.01               |  |  |  |  | 4.50             |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  |                          |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Exhaust Heat          |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  | 0.15                     |  |  |  |  | 0.15           |  |  |  |  | 5                     |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  |                          |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Ret. Fan Heat         |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.10               |  |  |  |  | 0.10                     |  |  |  |  | 3              |  |  |  |  | 0.00                  |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duct Heat PkUp     |  |  |  |  |                          |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Duct Heat PkUp        |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  | 0.00                     |  |  |  |  | 0.00           |  |  |  |  | 0                     |  |  |  |  | -0.47                 |  |  |  |  | 13                 |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  |                          |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Reheat at Design      |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -0.02              |  |  |  |  | -0.02                    |  |  |  |  | 2.99           |  |  |  |  | 0.34                  |  |  |  |  | -0.01                 |  |  |  |  | -3.56              |  |  |  |  | 100.00           |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                          |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Grand Total ==>       |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.49               |  |  |  |  | 0.49                     |  |  |  |  | 0.49           |  |  |  |  | 0.49                  |  |  |  |  | 0.49                  |  |  |  |  | 0.49               |  |  |  |  | 0.49             |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ENGINEERING CKS    |  |  |  |  |                          |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | ENGINEERING CKS       |  |  |  |  |                    |  |  |  |  |                  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| % OA               |  |  |  |  | Cooling                  |  |  |  |  | Heating        |  |  |  |  | Cooling               |  |  |  |  | Heating               |  |  |  |  | Cooling            |  |  |  |  | Heating          |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100.0              |  |  |  |  | 100.0                    |  |  |  |  | 100.0          |  |  |  |  | 100.0                 |  |  |  |  | 100.0                 |  |  |  |  | 100.0              |  |  |  |  | 100.0            |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lps/m²             |  |  |  |  | 4.50                     |  |  |  |  | 4.50           |  |  |  |  | 4.50                  |  |  |  |  | 4.50                  |  |  |  |  | 4.50               |  |  |  |  | 4.50             |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lps/kW             |  |  |  |  | 33.32                    |  |  |  |  | 33.32          |  |  |  |  | 33.32                 |  |  |  |  | 33.32                 |  |  |  |  | 33.32              |  |  |  |  | 33.32            |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| m²/kW              |  |  |  |  | 7.41                     |  |  |  |  | 7.41           |  |  |  |  | 7.41                  |  |  |  |  | 7.41                  |  |  |  |  | 7.41               |  |  |  |  | 7.41             |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W/m²               |  |  |  |  | 134.96                   |  |  |  |  | 134.96         |  |  |  |  | 134.96                |  |  |  |  | 134.96                |  |  |  |  | 134.96             |  |  |  |  | 134.96           |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No. People         |  |  |  |  | 2                        |  |  |  |  | 2              |  |  |  |  | 2                     |  |  |  |  | 2                     |  |  |  |  | 2                  |  |  |  |  | 2                |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |           |  |              |  |                |  |                |  | AREAS       |  |       |  | HEATING COIL SELECTION |  |              |  |      |  |  |  |  |  |
|------------------------|--|-----------|--|--------------|--|----------------|--|----------------|--|-------------|--|-------|--|------------------------|--|--------------|--|------|--|--|--|--|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter DB/WB/HR |  | Leave DB/WB/HR |  | Gross Total |  | Glass |  | Capacity               |  | Coil Airflow |  | Ent  |  |  |  |  |  |
| kW                     |  | kW        |  | L/s          |  | °C             |  | °C             |  | m²          |  | %     |  | kW                     |  | L/s          |  | °C   |  |  |  |  |  |
| Main Clg               |  | 3.00      |  | 1.89         |  | 100            |  | 36.5           |  | 21.6        |  | 11.5  |  | 19.8                   |  | 13.3         |  | 19.8 |  |  |  |  |  |
| Aux Clg                |  | 0.00      |  | 0.00         |  | 0              |  | 0.0            |  | 0.0         |  | 0.0   |  | 0.0                    |  | 0.0          |  | 0.0  |  |  |  |  |  |
| Opt Vent               |  | 0.00      |  | 0.00         |  | 0              |  | 0.0            |  | 0.0         |  | 0.0   |  | 0.0                    |  | 0.0          |  | 0.0  |  |  |  |  |  |
| Total                  |  | 3.00      |  | 3.00         |  | 0              |  | 0.0            |  | 0.0         |  | 0.0   |  | 0.0                    |  | 0.0          |  | 0.0  |  |  |  |  |  |
|                        |  |           |  |              |  |                |  |                |  | Floor       |  |       |  | Main Htg               |  |              |  |      |  |  |  |  |  |
|                        |  |           |  |              |  |                |  |                |  | Part        |  |       |  | Aux Htg                |  |              |  |      |  |  |  |  |  |
|                        |  |           |  |              |  |                |  |                |  | ExFlr       |  |       |  | Preheat                |  |              |  |      |  |  |  |  |  |
|                        |  |           |  |              |  |                |  |                |  | Roof        |  |       |  | Reheat                 |  |              |  |      |  |  |  |  |  |
|                        |  |           |  |              |  |                |  |                |  | Wall        |  |       |  | Humidif                |  |              |  |      |  |  |  |  |  |
|                        |  |           |  |              |  |                |  |                |  |             |  |       |  | Opt Vent               |  |              |  |      |  |  |  |  |  |
|                        |  |           |  |              |  |                |  |                |  |             |  |       |  | Total                  |  |              |  |      |  |  |  |  |  |



## Room Checksums

By GOCSA

CL0208 08 ASEO ACCES EX 4/25

| COOLING COIL PEAK            |           |                    |                |                  |                |                  |                    |             |       | CLG SPACE PEAK                            |                    |                  |                        | HEATING COIL PEAK                 |      |      |  | TEMPERATURES   |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------|--------------------|----------------|------------------|----------------|------------------|--------------------|-------------|-------|---|--------------------|------------------|------------------------|-----------------------------------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peaked at Time: Outside Air: |           |                    |                |                  |                |                  |                    |             |       | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |                    |                  |                        | Mo/Hr: Heating Design<br>OADB: -5 |      |      |  | SADB<br>Plenum<br>Return<br>Ret/OA<br>Fn MtrTD<br>Fn BidTD<br>Fn Frict |  |  |  | Cooling<br>12.8<br>24.3<br>25.2<br>25.2<br>0.1<br>0.3<br>0.9 |  |  |  | Heating<br>25.8<br>21.9<br>21.9<br>21.9<br>0.0<br>0.0<br>0.0 |  |  |  |
| Space Sens. + Lat.           |           | Plenum Sens. + Lat | Net Total      | Percent Of Total | Space Sensible | Percent Of Total | Envelope Loads     |             |       | Space Peak Space Sens                     | Coil Peak Tot Sens | Percent Of Total |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| kW                           | kW        | kW                 | kW             | (%)              | kW             | (%)              | kW                 | (%)         | kW    | kW  | (%)                |                  |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Envelope Loads               |           |                    |                |                  |                |                  |                    |             |       |   |                    |                  |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Solar                | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Skylite Solar      | 0           | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Cond                 | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Skylite Cond       | 0           | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Roof Cond                    | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Roof Cond          | 0           | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glass Solar                  | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Glass Solar        | 0           | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glass Cond                   | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Glass Cond         | 0           | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wall Cond                    | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Wall Cond          | 0           | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Partition                    | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Partition          | 0           | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exposed Floor                | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Exposed Floor      | 0           | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Infiltration                 | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Infiltration       | 0           | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Sub Total ==>      |             | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Internal Loads               |           |                    |                |                  |                |                  |                    |             |       |   |                    |                  |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lights                       | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Lights             |             | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| People                       | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | People             |             | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Misc                         | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Misc               |             | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Sub Total ==>      |             | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ceiling Load                 |           |                    |                |                  |                |                  |                    |             |       |   |                    |                  |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ventilation Load             | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Ceiling Load       |             | 0.00  | 0.00                                      | 0                  | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat           | 0         | 0.00               | 0.00           | 0                | 0.00           | 0                | Ventilation Load   |             | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing           | 0.00      | 0                  | 0              | 0                | 0              | 0                | Adj Air Trans Heat |             | 0     | 0   | 0                  | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing               | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Ov/Undr Sizing     |             | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exhaust Heat                 | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Exhaust Heat       |             | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat                | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | OA Preheat Diff.   |             | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat                | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | RA Preheat Diff.   |             | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duct Heat PkUp               | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | Additional Reheat  |             | -0.01 | 0.00                                      | -0.01              | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Reheat at Design             | 0.00      | 0.00               | 0.00           | 0                | 0.00           | 0                | System Plenum Heat |             | 0.00  | 0.00                                      | 0.00               | 0                |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Grand Total ==>              | 0.00      | 0.00               | 0.00           | 100.00           | 0.00           | 100.00           | Grand Total ==>    |             | 0.00  | -0.01                                     | 100.00             | 100.00           |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| COOLING COIL SELECTION       |           |                    |                |                  |                |                  |                    |             |       |   |                    |                  | HEATING COIL SELECTION |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Capacity               | Sens Cap. | Coil Airflow       | Enter DB/WB/HR | Leave DB/WB/HR   | AREAS          |                  |                    | Gross Total | Glass | Capacity                                  |                    |                  |                        | Coil Airflow                      | Ent  | Lvg  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| kW                           | kW        | L/s                | °C             | °C               | g/kg           | °C               | g/kg               | m²          | (%)   | kW  | L/s                | °C               | °C                     | °C                                | °C   | °C   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 25.2           | 15.6             | 8.1            | 11.5             | 10.4               | 6           |       | 0.0                                       | 0                  | 11.5             | 25.8                   | 0                                 | 11.5 | 25.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                | 31          |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            | 0.0              | 0.0                |             |       | 0.0                                       | 0                  | 0.0              | 0.0                    | 0                                 | 0.0  | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                         | 0.00      | 0                  | 0.0            | 0.0              | 0.0            |                  |                    |             |       |   |                    |                  |                        |                                   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |







Room Checksums

By GOCSA

CL0208 10 ASEO ACCES EX 4/25

| COOLING COIL PEAK |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |              |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|-------------------|--|--|--|--|-------------------------|--|--|--|--|----------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|--------------|--|--|--|--|--------------|--|--|--|--|--------------|--|--|--|--|------|--|--|--|--|
| Peaked at Time:   |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 3   |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB              |  |  |  |  | Cooling      |  |  |  |  | Heating      |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Outside Air:      |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 18       |  |  |  |  | OADB: -5              |  |  |  |  | Plenum            |  |  |  |  | 24.3         |  |  |  |  | 21.9         |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Plenum                  |  |  |  |  | Net            |  |  |  |  | Space                 |  |  |  |  | Space Peak        |  |  |  |  | Coil Peak    |  |  |  |  | Percent      |  |  |  |  | Return       |  |  |  |  |      |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Total          |  |  |  |  | Sensible              |  |  |  |  | Space Sens        |  |  |  |  | Tot Sens     |  |  |  |  | Of Total     |  |  |  |  | Ret/OA       |  |  |  |  |      |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | 25.2 |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | 25.2 |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | 21.9 |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | 21.9 |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | 0.0  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | 0.0  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | 0.0  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | 0.0  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | 0.0  |  |  |  |  |
| Sens. + Lat.      |  |  |  |  | Sens. + Lat.            |  |  |  |  | Sens. + Lat.   |  |  |  |  | Sens. + Lat.          |  |  |  |  | Sens. + Lat.      |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | Sens. + Lat. |  |  |  |  | 0.0  |  |  |  |  |
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## Room Checksums

By GOC SA

CL0208 11 ALMACEN EX 4/25

| COOLING COIL PEAK               |                    |                  |                  |   |                  |                       |                    |                          |                    | CLG SPACE PEAK         |                    |                                   |             | HEATING COIL PEAK |        |          |         | TEMPERATURES    |  |         |  |
|---------------------------------|--------------------|------------------|------------------|---|------------------|-----------------------|--------------------|--------------------------|--------------------|------------------------|--------------------|-----------------------------------|-------------|-------------------|--------|----------|---------|-----------------|--|---------|--|
| Peaked at Time:<br>Outside Air: |                    |                  |                  | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |                  |                       |                    | Mo/Hr: 7 / 3<br>OADB: 18 |                    |                        |                    | Mo/Hr: Heating Design<br>OADB: -5 |             |                   |        | SADB     |         | Cooling         |  | Heating |  |
| Space Sens. + Lat.              | Plenum Sens. + Lat | Net Total        | Percent Of Total | Space Sensible                            | Percent Of Total | Space Peak Space Sens | Coil Peak Tot Sens | Percent Of Total         | Envelope Loads     | Space Peak Space Sens  | Coil Peak Tot Sens | Percent Of Total                  | Return      | Plenum            | SADB   | Cooling  | Heating |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Skylite Solar      | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 25.9   | 12.8     | 25.9    |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Skylite Cond       | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 24.3     | 21.9    |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Roof Cond          | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 25.2     | 21.9    |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Glass Solar        | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 25.2     | 21.9    |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Glass Cond         | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 25.2     | 21.9    |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Wall Cond          | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 0.1      | 0.0     |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Partition          | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 0.3      | 0.0     |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Exposed Floor      | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 0.9      | 0.0     |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Infiltration       | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   |          |         |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Sub Total ==>      | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   |          |         |                 |  |         |  |
| Internal Loads                  |                    |                  |                  |   |                  |                       |                    |                          |                    | AIRFLOWS               |                    |                                   |             |                   |        |          |         |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Lights             | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 0        | 0       |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | People             | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 0        | 0       |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Misc               | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 0        | 0       |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Sub Total ==>      | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 0        | 0       |                 |  |         |  |
| Ceiling Load                    |                    |                  |                  |   |                  |                       |                    |                          |                    | ENGINEERING CKS        |                    |                                   |             |                   |        |          |         |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Ceiling Load       | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 0.0      | 0.0     |                 |  |         |  |
| 0.00                            | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Ventilation Load   | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 0.05     | 0.05    |                 |  |         |  |
| Adj Air Trans Heat              | 0                  | 0                | 0                | 0   | 0                | 0                     | 0                  | 0                        | Adj Air Trans Heat | 0                      | 0                  | 0                                 | 0           | 21.9              | 21.9   | 394.32   |         |                 |  |         |  |
| Dehumid. Ov Sizing              | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Ov/Undr Sizing     | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 7,519.44 | -0.86   |                 |  |         |  |
| Ov/Undr Sizing                  | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Exhaust Heat       | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   | 0.13     |         |                 |  |         |  |
| Exhaust Heat                    | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | OA Preheat Diff.   | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   |          |         |                 |  |         |  |
| Sup. Fan Heat                   | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | RA Preheat Diff.   | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   |          |         |                 |  |         |  |
| Ret. Fan Heat                   | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Additional Reheat  | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   |          |         |                 |  |         |  |
| Duct Heat Pkup                  | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | System Plenum Heat | 0.00                   | 0.00               | 0                                 | 0           | 21.9              | 21.9   |          |         |                 |  |         |  |
| Reheat at Design                | 0.00               | 0.00             | 0                | 0.00                                      | 0                | 0.00                  | 0.00               | 0                        | Grand Total ==>    | 0.00                   | 0.00               | 100.00                            | 0           | 21.9              | 21.9   | 0        |         |                 |  |         |  |
| Grand Total ==>                 |                    |                  |                  |   |                  |                       |                    |                          |                    | Grand Total ==>        |                    |                                   |             | Grand Total ==>   |        |          |         | Grand Total ==> |  |         |  |
| COOLING COIL SELECTION          |                    |                  |                  |   |                  |                       |                    |                          |                    | HEATING COIL SELECTION |                    |                                   |             |                   |        |          |         |                 |  |         |  |
| Total Capacity kW               | Sens Cap. kW       | Coil Airflow L/s | Enter °C         | DBWB/HR °C                                | g/kg             | Leave °C              | DBWB/HR °C         | g/kg                     |                    | Gross Total            | Glass m²           | Percent (%)                       | Capacity kW | Coil Airflow L/s  | Ent °C | Lvg °C   |         |                 |  |         |  |
| 0.00                            | 0.00               | 0                | 25.2             | 15.6                                      | 8.1              | 11.5                  | 10.4               | 8.1                      | Main Clg           | 5                      |                    |                                   | 0.0         | 0                 | 11.5   | 25.9     |         |                 |  |         |  |
| 0.00                            | 0.00               | 0                | 0.0              | 0.0                                       | 0.0              | 0.0                   | 0.0                | 0.0                      | Aux Clg            | 30                     |                    |                                   | 0.0         | 0                 | 0.0    | 0.0      |         |                 |  |         |  |
| 0.00                            | 0.00               | 0                | 0.0              | 0.0                                       | 0.0              | 0.0                   | 0.0                | 0.0                      | Opt Vent           | 0                      | 0                  | 0                                 | 0.0         | 0                 | 0.0    | 0.0      |         |                 |  |         |  |
| 0.00                            | 0.00               | 0                | 0.0              | 0.0                                       | 0.0              | 0.0                   | 0.0                | 0.0                      | Preheat            | 0                      | 0                  | 0                                 | 0.0         | 0                 | 0.0    | 0.0      |         |                 |  |         |  |
| 0.00                            | 0.00               | 0                | 0.0              | 0.0                                       | 0.0              | 0.0                   | 0.0                | 0.0                      | Reheat             | 0                      | 0                  | 0                                 | 0.0         | 0                 | 11.5   | 24.0     |         |                 |  |         |  |
| 0.00                            | 0.00               | 0                | 0.0              | 0.0                                       | 0.0              | 0.0                   | 0.0                | 0.0                      | Humidif            | 0                      | 0                  | 0                                 | 0.0         | 0                 | 0.0    | 0.0      |         |                 |  |         |  |
| 0.00                            | 0.00               | 0                | 0.0              | 0.0                                       | 0.0              | 0.0                   | 0.0                | 0.0                      | Opt Vent           | 0                      | 0                  | 0                                 | 0.0         | 0                 | 0.0    | 0.0      |         |                 |  |         |  |
| 0.00                            | 0.00               | 0                | 0.0              | 0.0                                       | 0.0              | 0.0                   | 0.0                | 0.0                      | Total              | 0                      | 0                  | 0                                 | 0.0         | 0                 | 0.0    | 0.0      |         |                 |  |         |  |



CL0208 12 ALMACEN EX 4/25

| COOLING COIL PEAK            |  |  |  | CLG SPACE PEAK                        |  |  |  | HEATING COIL PEAK              |  |  |  | TEMPERATURES   |  |  |  |
|------------------------------|--|--|--|---------------------------------------|--|--|--|--------------------------------|--|--|--|--|--|--|--|
| Peaked at Time: Outside Air: |  |  |  | Mo/Hr: 7 / 15 OADBWB/Hr: 36 / 22 / 11 |  |  |  | Mo/Hr: Heating Design OADB: -5 |  |  |  | SADB Cooling Heating 25.9  |  |  |  |
| Sens. + Lat. kW              |  |  |  | Plenum Sens. + Lat. kW                |  |  |  | Net Total kW                   |  |  |  | Plenum Return Ret/OA Fn MtrTD Fn BidTD Fn Frict 21.9 21.9 21.9 0.0 0.0 0.0 0.9 |  |  |  |
| Space kW                     |  |  |  | Percent Of Total (%)                  |  |  |  | Space Peak kW                  |  |  |  | Coil Peak Tot Sens kW  |  |  |  |
| Envelope Loads               |  |  |  | Envelope Loads                        |  |  |  | Envelope Loads                 |  |  |  | Percent Of Total (%)   |  |  |  |
| Skylite Solar                |  |  |  | Skylite Solar                         |  |  |  | Skylite Solar                  |  |  |  | 0.00   |  |  |  |
| Skylite Cond                 |  |  |  | Skylite Cond                          |  |  |  | Skylite Cond                   |  |  |  | 0.00   |  |  |  |
| Roof Cond                    |  |  |  | Roof Cond                             |  |  |  | Roof Cond                      |  |  |  | 0.00   |  |  |  |
| Glass Solar                  |  |  |  | Glass Solar                           |  |  |  | Glass Solar                    |  |  |  | 0.00   |  |  |  |
| Glass Cond                   |  |  |  | Glass Cond                            |  |  |  | Glass Cond                     |  |  |  | 0.00   |  |  |  |
| Wall Cond                    |  |  |  | Wall Cond                             |  |  |  | Wall Cond                      |  |  |  | 0.00   |  |  |  |
| Partition                    |  |  |  | Partition                             |  |  |  | Partition                      |  |  |  | 0.00   |  |  |  |
| Exposed Floor                |  |  |  | Exposed Floor                         |  |  |  | Exposed Floor                  |  |  |  | 0.00   |  |  |  |
| Infiltration                 |  |  |  | Infiltration                          |  |  |  | Infiltration                   |  |  |  | 0.00   |  |  |  |
| Sub Total ==>                |  |  |  | Sub Total ==>                         |  |  |  | Sub Total ==>                  |  |  |  | 0.00   |  |  |  |
| Internal Loads               |  |  |  | Internal Loads                        |  |  |  | Internal Loads                 |  |  |  | 0.00   |  |  |  |
| Lights                       |  |  |  | Lights                                |  |  |  | Lights                         |  |  |  | 0.00   |  |  |  |
| People                       |  |  |  | People                                |  |  |  | People                         |  |  |  | 0.00   |  |  |  |
| Misc                         |  |  |  | Misc                                  |  |  |  | Misc                           |  |  |  | 0.00   |  |  |  |
| Sub Total ==>                |  |  |  | Sub Total ==>                         |  |  |  | Sub Total ==>                  |  |  |  | 0.00   |  |  |  |
| Ceiling Load                 |  |  |  | Ceiling Load                          |  |  |  | Ceiling Load                   |  |  |  | 0.00   |  |  |  |
| Ventilation Load             |  |  |  | Ventilation Load                      |  |  |  | Ventilation Load               |  |  |  | 0.00   |  |  |  |
| Adj Air Trans Heat           |  |  |  | Adj Air Trans Heat                    |  |  |  | Adj Air Trans Heat             |  |  |  | 0.00   |  |  |  |
| Dehumid. Ov Sizing           |  |  |  | Dehumid. Ov Sizing                    |  |  |  | Dehumid. Ov Sizing             |  |  |  | 0.00   |  |  |  |
| OvUndr Sizing                |  |  |  | OvUndr Sizing                         |  |  |  | OvUndr Sizing                  |  |  |  | 0.00   |  |  |  |
| Exhaust Heat                 |  |  |  | Exhaust Heat                          |  |  |  | Exhaust Heat                   |  |  |  | 0.00   |  |  |  |
| Sup. Fan Heat                |  |  |  | Sup. Fan Heat                         |  |  |  | Sup. Fan Heat                  |  |  |  | 0.00   |  |  |  |
| Ret. Fan Heat                |  |  |  | Ret. Fan Heat                         |  |  |  | Ret. Fan Heat                  |  |  |  | 0.00   |  |  |  |
| Duct Heat PkUp               |  |  |  | Duct Heat PkUp                        |  |  |  | Duct Heat PkUp                 |  |  |  | 0.00   |  |  |  |
| Reheat at Design             |  |  |  | Reheat at Design                      |  |  |  | Reheat at Design               |  |  |  | -0.01  |  |  |  |
| Grand Total ==>              |  |  |  | Grand Total ==>                       |  |  |  | Grand Total ==>                |  |  |  | 0.00   |  |  |  |
| No. People                   |  |  |  | No. People                            |  |  |  | No. People                     |  |  |  | 0  |  |  |  |
| Engineering CKS              |  |  |  | Engineering CKS                       |  |  |  | Engineering CKS                |  |  |  | 0.00   |  |  |  |
| % OA                         |  |  |  | % OA                                  |  |  |  | % OA                           |  |  |  | 0.00   |  |  |  |
| Lps/m²                       |  |  |  | Lps/m²                                |  |  |  | Lps/m²                         |  |  |  | 0.05   |  |  |  |
| Lps/kW                       |  |  |  | Lps/kW                                |  |  |  | Lps/kW                         |  |  |  | 394.32   |  |  |  |
| m²/kW                        |  |  |  | m²/kW                                 |  |  |  | m²/kW                          |  |  |  | 7,519.44   |  |  |  |
| W/m²                         |  |  |  | W/m²                                  |  |  |  | W/m²                           |  |  |  | 0.13   |  |  |  |
| -0.86                        |  |  |  | -0.86                                 |  |  |  | -0.86                          |  |  |  | -0.86  |  |  |  |
| HEATING COIL SELECTION       |  |  |  | HEATING COIL SELECTION                |  |  |  | HEATING COIL SELECTION         |  |  |  | HEATING COIL SELECTION   |  |  |  |
| Capacity kW                  |  |  |  | Capacity kW                           |  |  |  | Capacity kW                    |  |  |  | Capacity kW  |  |  |  |
| Coil Airflow L/s             |  |  |  | Coil Airflow L/s                      |  |  |  | Coil Airflow L/s               |  |  |  | Coil Airflow L/s   |  |  |  |
| Main Htg                     |  |  |  | Main Htg                              |  |  |  | Main Htg                       |  |  |  | 11.5   |  |  |  |
| Aux Htg                      |  |  |  | Aux Htg                               |  |  |  | Aux Htg                        |  |  |  | 0.0  |  |  |  |
| Preheat                      |  |  |  | Preheat                               |  |  |  | Preheat                        |  |  |  | 0.0  |  |  |  |
| Reheat                       |  |  |  | Reheat                                |  |  |  | Reheat                         |  |  |  | 0.0  |  |  |  |
| Humidif                      |  |  |  | Humidif                               |  |  |  | Humidif                        |  |  |  | 0.0  |  |  |  |
| Opt Vent                     |  |  |  | Opt Vent                              |  |  |  | Opt Vent                       |  |  |  | 0.0  |  |  |  |
| Total                        |  |  |  | Total                                 |  |  |  | Total                          |  |  |  | 0.0  |  |  |  |



## Room Checksums

By GOC SA

CL0208 13 SUCIO EX 4/25

[illegible]



Room Checksums

By GOCSA

CL0210 01 QUIROFANO 1

| COOLING COIL PEAK               |                             |                              |                    | CLG SPACE PEAK                           |                         |                            |                    | HEATING COIL PEAK                 |                             |                            |      | TEMPERATURES |         |         |  |
|---------------------------------|-----------------------------|------------------------------|--------------------|--|-------------------------|----------------------------|--------------------|-----------------------------------|-----------------------------|----------------------------|------|--------------|---------|---------|--|
| Peaked at Time:<br>Outside Air: |                             |                              |                    | Mo/Hr: 7 / 15<br>OADBWB/Hr: 36 / 22 / 11 |                         |                            |                    | Mo/Hr: Heating Design<br>OADB: -5 |                             |                            |      |              |         |         |  |
| Envelope Loads                  | Space<br>Sens. + Lat.<br>kW | Plenum<br>Sens. + Lat.<br>kW | Net<br>Total<br>kW | Percent<br>Of Total<br>(%)               | Space<br>Sensible<br>kW | Percent<br>Of Total<br>(%) | Envelope Loads     | Space Peak<br>Space Sens<br>kW    | Coil Peak<br>Tot Sens<br>kW | Percent<br>Of Total<br>(%) |      |              |         |         |  |
|                                 |                             |                              |                    |  |                         |                            |                    |                                   |                             |                            | SADB | Cooling      | Heating |         |  |
| Skylite Solar                   | 0.00                        | 0.00                         | 0.00               | 0  | 0.00                    | 0                          | Skylite Solar      | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
| Skylite Cond                    | 0.00                        | 0.00                         | 0.00               | 0  | 0.00                    | 0                          | Skylite Cond       | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
| Roof Cond                       | 0.00                        | 0.26                         | 0.26               | 1  | 0.00                    | 0                          | Roof Cond          | 0.00                              | -0.48                       | 2                          |      |              |         |         |  |
| Glass Solar                     | 0.52                        | 0.00                         | 0.52               | 2  | 0.60                    | 11                         | Glass Solar        | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
| Glass Cond                      | 0.06                        | 0.00                         | 0.06               | 0  | 0.05                    | 1                          | Glass Cond         | -0.15                             | -0.15                       | 1                          |      |              |         |         |  |
| Wall Cond                       | 0.06                        | 0.01                         | 0.07               | 0  | 0.06                    | 1                          | Wall Cond          | -0.23                             | -0.28                       | 1                          |      |              |         |         |  |
| Partition                       | 0.00                        | 0.00                         | 0.00               | 0  | 0.00                    | 0                          | Partition          | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
| Exposed Floor                   | 0.00                        | 0.00                         | 0.00               | 0  | 0.00                    | 0                          | Exposed Floor      | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
| Infiltration                    | 0.00                        | 0.00                         | 0.00               | 0  | 0.00                    | 0                          | Infiltration       | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
| Sub Total ==>                   | 0.64                        | 0.27                         | 0.91               | 4  | 0.71                    | 13                         | Sub Total ==>      | -0.38                             | -0.91                       | 3                          |      |              |         |         |  |
| Internal Loads                  |                             |                              |                    | Internal Loads                           |                         |                            |                    |                                   |                             |                            |      | AIRFLOWS     |         |         |  |
| Lights                          | 0.94                        | 0.00                         | 0.94               | 4  | 0.94                    | 17                         | Lights             | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
| People                          | 0.79                        | 0.00                         | 0.79               | 4  | 0.44                    | 8                          | People             | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
| Misc                            | 3.50                        | 0.00                         | 3.50               | 16                                       | 3.50                    | 62                         | Misc               | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
| Sub Total ==>                   | 5.23                        | 0.00                         | 5.23               | 23                                       | 4.88                    | 87                         | Sub Total ==>      | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
|                                 |                             |                              |                    |  |                         |                            |                    |                                   |                             |                            |      |              |         |         |  |
| Ceiling Load                    | 0.03                        | -0.03                        | 0.00               | 0  | 0.03                    | 1                          | Ceiling Load       | -0.05                             | 0                           | 0                          |      |              |         |         |  |
| Ventilation Load                | 0.00                        | 0.00                         | 15.25              | 68                                       | 0.00                    | 0                          | Ventilation Load   | 0.00                              | -21.56                      | 75                         |      |              |         |         |  |
| Adj Air Trans Heat              | 0                           | 0.00                         | 0                  | 0  | 0                       | 0                          | Adj Air Trans Heat | 0                                 | 0                           | 0                          |      |              |         |         |  |
| Dehumid. Ov Sizing              |                             |                              | 0                  | 0  |                         |                            |                    |                                   |                             |                            |      |              |         |         |  |
| Ov/Undr Sizing                  | 0.00                        |                              | 0.00               | 0  | 0.00                    | 0                          | Ov/Undr Sizing     | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
| Exhaust Heat                    |                             | -0.97                        | -0.97              | -4                                       |                         |                            | Exhaust Heat       | 0.00                              | 0.48                        | -2                         |      |              |         |         |  |
| Sup. Fan Heat                   |                             | 1.24                         | 1.24               | 6  |                         |                            | OA Preheat Diff.   | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
| Ret. Fan Heat                   |                             | 0.72                         | 0.72               | 3  |                         |                            | RA Preheat Diff.   | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
| Duct Heat PkUp                  |                             | 0.00                         | 0.00               | 0  |                         |                            | Additional Reheat  | -6.85                             | -6.85                       | 24                         |      |              |         |         |  |
| Reheat at Design                |                             | 0.00                         | 0.00               | 0  |                         |                            | System Plenum Heat | 0.00                              | 0.00                        | 0                          |      |              |         |         |  |
| Grand Total ==>                 | 5.90                        | -0.01                        | 22.38              | 100.00                                   | 5.62                    | 100.00                     | Grand Total ==>    | -0.43                             | -28.84                      | 100.00                     |      |              |         |         |  |
|                                 |                             |                              |                    |  |                         |                            |                    |                                   |                             | ENGINEERING CKS            |      |              |         |         |  |
|                                 |                             |                              |                    |  |                         |                            |                    |                                   |                             | Cooling                    |      | Heating      |         |         |  |
|                                 |                             |                              |                    |  |                         |                            |                    |                                   |                             | 100.0                      |      | 100.0        |         |         |  |
|                                 |                             |                              |                    |  |                         |                            |                    |                                   |                             | % OA                       |      |              |         |         |  |
|                                 |                             |                              |                    |  |                         |                            |                    |                                   |                             | 14.95                      |      | 14.95        |         |         |  |
|                                 |                             |                              |                    |  |                         |                            |                    |                                   |                             | Lps/m²                     |      | Lps/kW       |         |         |  |
|                                 |                             |                              |                    |  |                         |                            |                    |                                   |                             | 31.28                      |      | 31.28        |         |         |  |
|                                 |                             |                              |                    |  |                         |                            |                    |                                   |                             | Lps/kW                     |      |              |         |         |  |
|                                 |                             |                              |                    |  |                         |                            |                    |                                   |                             | 2.09                       |      | 2.09         |         |         |  |
|                                 |                             |                              |                    |  |                         |                            |                    |                                   |                             | 477.79                     |      | 477.79       |         | -784.79 |  |
|                                 |                             |                              |                    |  |                         |                            |                    |                                   |                             | No. People                 |      | 6            |         |         |  |

| COOLING COIL SELECTION |                 |                     |                              |                              |          |
|------------------------|-----------------|---------------------|------------------------------|------------------------------|----------|
| Total Capacity<br>kW   | Sens Cap.<br>kW | Coil Airflow<br>L/s | Enter DB/WB/HR<br>°C °C g/kg | Leave DB/WB/HR<br>°C °C g/kg |          |
| 22.38                  | 18.39           | 700                 | 36.5 21.6 11.5               | 13.5 12.6 9.5                | Main Clg |
| 0.00                   | 0.00            | 0                   | 0.0 0.0 0.0                  | 0.0 0.0 0.0                  | Aux Clg  |
| 0.00                   | 0.00            | 0                   | 0.0 0.0 0.0                  | 0.0 0.0 0.0                  | Opt Vent |
| 22.38                  |                 |                     |                              |                              | Total    |

| AREAS       |             |     |
|-------------|-------------|-----|
| Gross Total | Glass<br>m² | (%) |
| Floor       | 47          |     |
| Part        | 61          |     |
| ExFlr       | 0           |     |
| Roof        | 47          | 0   |
| Wall        | 27          | 4   |

| HEATING COIL SELECTION |                     |           |           |          |
|------------------------|---------------------|-----------|-----------|----------|
| Capacity<br>kW         | Coil Airflow<br>L/s | Ent<br>°C | Lvg<br>°C |          |
| -7.3                   | 700                 | 13.5      | 22.5      | Main Htg |
| 0.0                    | 0                   | 0.0       | 0.0       | Aux Htg  |
| -14.7                  | 700                 | -4.9      | 13.5      | Preheat  |
| -6.9                   | 700                 | 13.5      | 22.0      | Reheat   |
| -14.8                  | 700                 | 0.5       | 8.1       | Humidif  |
| 0.0                    | 0                   | 0.0       | 0.0       | Opt Vent |
| -36.8                  |                     |           |           | Total    |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums reported as 8861 of 194



## Room Checksums

By GOCSA

CL0211 01 QUIROFANO 2

| COOLING COIL PEAK            |  |       |             |       |          |          |          |         |            | CLG SPACE PEAK                   |           |          |        | HEATING COIL PEAK              |          |          |  | TEMPERATURES |  |               |  |  |  |
|------------------------------|--|-------|-------------|-------|----------|----------|----------|---------|------------|----------------------------------|-----------|----------|--------|--------------------------------|----------|----------|--|--------------|--|---------------|--|--|--|
| Peaked at Time: Outside Air: |  |       |             |       |          |          |          |         |            | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |           |          |        | Mo/Hr: Heating Design OADB: -5 |          |          |  |              |  |               |  |  |  |
| Sens. + Lat.                 |  | Space | Plenum      | Net   | Percent  | Space    |          | Percent | Space Peak |                                  | Coil Peak | Percent  | SADB   |                                | Cooling  | Heating  |  |              |  |               |  |  |  |
| Sens. + Lat.                 |  | kW    | Sens. + Lat | Total | Of Total | Sensible | Of Total |         | Space Sens | Space Sens                       | Tot Sens  | Of Total | Return | Plenum                         |          |          |  |              |  |               |  |  |  |
|                              |  | kW    | kW          | kW    | (%)      | kW       | (%)      |         | kW         | kW                               | kW        | (%)      | Ret/OA | Fn MtrTD                       | Fn BidTD | Fn Frict |  |              |  |               |  |  |  |
| Envelope Loads               |  |       |             |       |          |          |          |         |            | Envelope Loads                   |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Skylite Solar                |  |       |             |       |          |          |          |         |            | Skylite Solar                    |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Skylite Cond                 |  |       |             |       |          |          |          |         |            | Skylite Cond                     |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Roof Cond                    |  |       |             |       |          |          |          |         |            | Roof Cond                        |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Glass Solar                  |  |       |             |       |          |          |          |         |            | Glass Solar                      |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Glass Cond                   |  |       |             |       |          |          |          |         |            | Glass Cond                       |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Wall Cond                    |  |       |             |       |          |          |          |         |            | Wall Cond                        |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Partition                    |  |       |             |       |          |          |          |         |            | Partition                        |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Exposed Floor                |  |       |             |       |          |          |          |         |            | Exposed Floor                    |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Infiltration                 |  |       |             |       |          |          |          |         |            | Infiltration                     |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Sub Total ==>                |  |       |             |       |          |          |          |         |            | Sub Total ==>                    |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Internal Loads               |  |       |             |       |          |          |          |         |            | Internal Loads                   |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Lights                       |  |       |             |       |          |          |          |         |            | Lights                           |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| People                       |  |       |             |       |          |          |          |         |            | People                           |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Misc                         |  |       |             |       |          |          |          |         |            | Misc                             |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Sub Total ==>                |  |       |             |       |          |          |          |         |            | Sub Total ==>                    |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Ceiling Load                 |  |       |             |       |          |          |          |         |            | Ceiling Load                     |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Ventilation Load             |  |       |             |       |          |          |          |         |            | Ventilation Load                 |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Adj Air Trans Heat           |  |       |             |       |          |          |          |         |            | Adj Air Trans Heat               |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Dehumid. Ov Sizing           |  |       |             |       |          |          |          |         |            | Ov/Undr Sizing                   |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Ov/Undr Sizing               |  |       |             |       |          |          |          |         |            | Exhaust Heat                     |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Exhaust Heat                 |  |       |             |       |          |          |          |         |            | OA Preheat Diff.                 |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Sup. Fan Heat                |  |       |             |       |          |          |          |         |            | RA Preheat Diff.                 |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Ret. Fan Heat                |  |       |             |       |          |          |          |         |            | Additional Reheat                |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Duct Heat PkUp               |  |       |             |       |          |          |          |         |            | System Plenum Heat               |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Reheat at Design             |  |       |             |       |          |          |          |         |            | Grand Total ==>                  |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| Grand Total ==>              |  |       |             |       |          |          |          |         |            | Grand Total ==>                  |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| 5.88                         |  |       |             |       |          |          |          |         |            | -0.01                            |           |          |        |                                |          |          |  |              |  | No. People 6  |  |  |  |
| 22.34                        |  |       |             |       |          |          |          |         |            | 100.00                           |           |          |        |                                |          |          |  |              |  | -28.75 100.00 |  |  |  |
| -0.01                        |  |       |             |       |          |          |          |         |            | 5.60                             |           |          |        |                                |          |          |  |              |  | -0.36         |  |  |  |
| 22.34                        |  |       |             |       |          |          |          |         |            | 0.03                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | -21.56        |  |  |  |
| 0                            |  |       |             |       |          |          |          |         |            | 0                                |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| -0.97                        |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 1.24                         |  |       |             |       |          |          |          |         |            | 0.46                             |           |          |        |                                |          |          |  |              |  | 14.95         |  |  |  |
| 0.72                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 31.32         |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 2.09          |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | -6.83                            |           |          |        |                                |          |          |  |              |  | 477.13        |  |  |  |
| 0                            |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | -783.19       |  |  |  |
| Grand Total ==>              |  |       |             |       |          |          |          |         |            | Grand Total ==>                  |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| 5.88                         |  |       |             |       |          |          |          |         |            | -0.36                            |           |          |        |                                |          |          |  |              |  | 6             |  |  |  |
| 22.34                        |  |       |             |       |          |          |          |         |            | -28.75                           |           |          |        |                                |          |          |  |              |  | 100.00        |  |  |  |
| -0.01                        |  |       |             |       |          |          |          |         |            | 100.00                           |           |          |        |                                |          |          |  |              |  |               |  |  |  |
| 22.34                        |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0.00                             |           |          |        |                                |          |          |  |              |  | 0             |  |  |  |
| 0.00                         |  |       |             |       |          |          |          |         |            | 0                                |           |          |        |                                |          |          |  |              |  |               |  |  |  |



Room Checksums

By GOCSA

CL0212 01 QUIROFANO 3

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK                   |          |       |          | HEATING COIL PEAK              |           |          |  |
|------------------------------|--------------|--------------|-------|----------------------------------|----------|-------|----------|--------------------------------|-----------|----------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |          |       |          | Mo/Hr: Heating Design OADB: -5 |           |          |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                            | Percent  | Space | Percent  | Space Peak                     | Coil Peak | Percent  |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible                         | Of Total | Total | Of Total | Space Sens                     | Tot Sens  | Of Total |  |
| kW                           | kW           | kW           | kW    | kW                               | (%)      | kW    | (%)      | kW                             | kW        | (%)      |  |
| Envelope Loads               |              |              |       |                                  |          |       |          |                                |           |          |  |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Roof Cond                    | 0.00         | 0.26         | 0.26  | 0.00                             | 1        | 0.00  | 0        | 0.00                           | -0.48     | 2        |  |
| Glass Solar                  | 0.28         | 0.00         | 0.28  | 0.00                             | 1        | 0.30  | 6        | 0.00                           | 0.00      | 0        |  |
| Glass Cond                   | 0.06         | 0.00         | 0.06  | 0.06                             | 0        | 0.06  | 1        | -0.15                          | -0.15     | 1        |  |
| Wall Cond                    | 0.04         | 0.01         | 0.05  | 0.05                             | 0        | 0.05  | 1        | -0.16                          | -0.19     | 1        |  |
| Partition                    | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exposed Floor                | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 0.38         | 0.27         | 0.65  | 0.41                             | 8        | 0.41  | 8        | -0.31                          | -0.82     | 3        |  |
| Internal Loads               |              |              |       |                                  |          |       |          |                                |           |          |  |
| Lights                       | 0.94         | 0.00         | 0.94  | 0.94                             | 18       | 0.94  | 18       | 0.00                           | 0.00      | 0        |  |
| People                       | 0.79         | 0.00         | 0.79  | 0.44                             | 8        | 0.44  | 8        | 0.00                           | 0.00      | 0        |  |
| Misc                         | 3.50         | 0.00         | 3.50  | 3.50                             | 66       | 3.50  | 66       | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 5.23         | 0.00         | 5.23  | 4.88                             | 92       | 4.88  | 92       | 0.00                           | 0.00      | 0        |  |
| Ceiling Load                 |              |              |       |                                  |          |       |          |                                |           |          |  |
| Ventilation Load             | 0.03         | -0.03        | 0.00  | 0.03                             | 1        | 0.03  | 1        | -0.05                          | 0         | 0        |  |
| Adj Air Trans Heat           | 0.00         | 0.00         | 15.42 | 0.00                             | 0        | 0.00  | 0        | 0.00                           | -21.56    | 76       |  |
| Dehumid. Ov Sizing           | 0            | 0            | 0     | 0                                | 0        | 0     | 0        | 0                              | 0         | 0        |  |
| OvUndr Sizing                | 0.00         | -0.97        | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exhaust Heat                 | 0.00         | 0.00         | -0.97 | -0.97                            | -4       | 0.00  | 0        | 0.46                           | 0.46      | -2       |  |
| Sup. Fan Heat                | 0.00         | 0.00         | 1.24  | 1.24                             | 6        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Ret. Fan Heat                | 0.00         | 0.72         | 0.72  | 0.72                             | 3        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Duct Heat PkUp               | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0.00  | 0        | -6.60                          | -6.60     | 23       |  |
| Reheat at Design             | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Grand Total ==>              | 5.64         | -0.01        | 22.39 | 5.32                             | 100.00   | 22.39 | 100.00   | -0.36                          | -28.52    | 100.00   |  |

| TEMPERATURES |         |         |  |
|--------------|---------|---------|--|
| SADB         | Cooling | Heating |  |
| Plenum       | 15.4    | 22.4    |  |
| Return       | 22.3    | 21.4    |  |
| Ret/OA       | 23.2    | 21.4    |  |
| Fn MtrTD     | 36.5    | -4.9    |  |
| Fn BidTD     | 0.2     | 0.0     |  |
| Fn Frict     | 0.4     | 0.0     |  |
|              | 1.1     | 0.0     |  |

| AIRFLOWS   |         |         |  |
|------------|---------|---------|--|
| Vent       | Cooling | Heating |  |
| Infil      | 700     | 700     |  |
| Supply     | 0       | 0       |  |
| MinStop/Rh | 700     | 700     |  |
| Return     | 700     | 700     |  |
| Exhaust    | 700     | 700     |  |
| Rm Exh     | 0       | 0       |  |
| Auxil      | 0       | 0       |  |

| ENGINEERING CKS |         |         |  |
|-----------------|---------|---------|--|
| % OA            | Cooling | Heating |  |
| Lps/m²          | 100.0   | 100.0   |  |
| Lps/kW          | 14.95   | 14.95   |  |
| m²/kW           | 31.25   |         |  |
| W/m²            | 2.09    |         |  |
|                 | 478.31  | -784.17 |  |
| No. People      | 6       |         |  |

| COOLING COIL SELECTION |           |              |                |
|------------------------|-----------|--------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR |
| kW                     | kW        | L/s          | °C °C g/kg     |
| Main Clg               | 22.40     | 18.20        | 36.5 21.6 11.5 |
| Aux Clg                | 0.00      | 0.00         | 13.8 12.5 9.4  |
| Opt Vent               | 0.00      | 0.00         | 0.0 0.0 0.0    |
| Total                  | 22.40     | 0.00         | 0.0 0.0 0.0    |

| AREAS       |    | Glass |    |
|-------------|----|-------|----|
| Gross Total | m² | (%)   |    |
| Floor       | 47 |       |    |
| Part        | 68 |       |    |
| ExFlr       | 0  | 0     |    |
| Roof        | 47 | 0     |    |
| Wall        | 20 | 4     | 18 |

| HEATING COIL SELECTION |              |     |           |
|------------------------|--------------|-----|-----------|
| Capacity               | Coil Airflow | Ent | Lvg       |
| kW                     | L/s          | °C  | °C        |
| Main Htg               | -7.0         | 700 | 13.8 22.4 |
| Aux Htg                | 0.0          | 0   | 0.0 0.0   |
| Preheat                | -15.0        | 700 | -4.9 13.8 |
| Reheat                 | -6.6         | 700 | 13.8 22.0 |
| Humidif                | -14.8        | 700 | 0.5 8.1   |
| Opt Vent               | 0.0          | 0   | 0.0 0.0   |
| Total                  | -36.7        |     |           |



Room Checksums

By GOCSA

CL0213 01 QUIROFANO 4

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK         |          |       |          | HEATING COIL PEAK              |           |          |  |
|------------------------------|--------------|--------------|-------|------------------------|----------|-------|----------|--------------------------------|-----------|----------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 36 |          |       |          | Mo/Hr: Heating Design OADB: -5 |           |          |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                  | Percent  | Space | Percent  | Space Peak                     | Coil Peak | Percent  |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible               | Of Total | Total | Of Total | Space Sens                     | Tot Sens  | Of Total |  |
| kW                           | kW           | kW           | kW    | kW                     | (%)      | kW    | (%)      | kW                             | kW        | (%)      |  |
| Envelope Loads               |              |              |       |                        |          |       |          |                                |           |          |  |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Roof Cond                    | 0.00         | 0.26         | 0.26  | 0.00                   | 1        | 0.00  | 0        | 0.00                           | -0.47     | 2        |  |
| Glass Solar                  | 0.31         | 0.00         | 0.31  | 0.36                   | 7        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Cond                   | 0.03         | 0.00         | 0.03  | 0.03                   | 1        | 0.03  | 0        | -0.09                          | -0.09     | 0        |  |
| Wall Cond                    | 0.05         | 0.01         | 0.06  | 0.05                   | 1        | 0.05  | 0        | -0.17                          | -0.21     | 1        |  |
| Partition                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exposed Floor                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 0.39         | 0.27         | 0.66  | 0.44                   | 8        | 0.44  | 8        | -0.26                          | -0.77     | 3        |  |
| Internal Loads               |              |              |       |                        |          |       |          |                                |           |          |  |
| Lights                       | 0.92         | 0.00         | 0.92  | 0.92                   | 17       | 0.92  | 17       | 0.00                           | 0.00      | 0        |  |
| People                       | 0.79         | 0.00         | 0.79  | 0.44                   | 8        | 0.44  | 8        | 0.00                           | 0.00      | 0        |  |
| Misc                         | 3.50         | 0.00         | 3.50  | 3.50                   | 66       | 3.50  | 66       | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 5.21         | 0.00         | 5.21  | 4.86                   | 91       | 4.86  | 91       | 0.00                           | 0.00      | 0        |  |
| Ceiling Load                 |              |              |       |                        |          |       |          |                                |           |          |  |
| Ventilation Load             | 0.03         | -0.03        | 0.00  | 0.03                   | 1        | 0.03  | 1        | -0.05                          | 0         | 0        |  |
| Adj Air Trans Heat           | 0.00         | 0.00         | 14.93 | 0.00                   | 0        | 0.00  | 0        | 0.00                           | -21.56    | 76       |  |
| Dehumid. Ov Sizing           | 0            | 0            | 0     | 0                      | 0        | 0     | 0        | 0                              | 0         | 0        |  |
| OvUndr Sizing                | 0.00         | -0.97        | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exhaust Heat                 | 0.00         | 0.00         | -0.97 | 0.00                   | -4       | 0.00  | 0        | 0.46                           | 0.46      | -2       |  |
| Sup. Fan Heat                | 0.00         | 0.00         | 1.24  | 0.00                   | 6        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Ret. Fan Heat                | 0.00         | 0.72         | 0.72  | 0.00                   | 3        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Duct Heat PkUp               | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | -6.60                          | -6.60     | 23       |  |
| Reheat at Design             | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Grand Total ==>              | 5.63         | -0.01        | 21.88 | 5.33                   | 100.00   | 21.88 | 100.00   | -0.31                          | -28.47    | 100.00   |  |

| TEMPERATURES |         |         |  |
|--------------|---------|---------|--|
| SADB         | Cooling | Heating |  |
| Plenum       | 15.4    | 22.4    |  |
| Return       | 22.3    | 21.4    |  |
| Ret/OA       | 23.2    | 21.4    |  |
| Fn MtrTD     | 36.5    | -4.9    |  |
| Fn BidTD     | 0.2     | 0.0     |  |
| Fn Frict     | 0.4     | 0.0     |  |
|              | 1.1     | 0.0     |  |

| AIRFLOWS   |         |         |  |
|------------|---------|---------|--|
| Vent       | Cooling | Heating |  |
| Infil      | 700     | 700     |  |
| Supply     | 0       | 0       |  |
| MinStop/Rh | 700     | 700     |  |
| Return     | 700     | 700     |  |
| Exhaust    | 700     | 700     |  |
| Rm Exh     | 0       | 0       |  |
| Auxil      | 0       | 0       |  |

| ENGINEERING CKS |         |         |  |
|-----------------|---------|---------|--|
| % OA            | Cooling | Heating |  |
| Lps/m²          | 100.0   | 100.0   |  |
| Lps/kW          | 15.23   | 15.23   |  |
| m²/kW           | 31.98   |         |  |
| W/m²            | 2.10    |         |  |
|                 | 476.00  | -797.58 |  |
| No. People      | 6       |         |  |

| COOLING COIL SELECTION |           |              |                |
|------------------------|-----------|--------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR |
| kW                     | kW        | L/s          | °C °C g/kg     |
| Main Clg               | 21.89     | 700          | 36.5 21.6 11.5 |
| Aux Clg                | 0.00      | 0            | 0.0 0.0 0.0    |
| Opt Vent               | 0.00      | 0            | 0.0 0.0 0.0    |
| Total                  | 21.89     |              |                |

| AREAS       |    | Glass |    |
|-------------|----|-------|----|
| Gross Total | m² | (%)   |    |
| Floor       | 46 |       |    |
| Part        | 68 |       |    |
| ExFlr       | 0  | 0     |    |
| Roof        | 46 |       |    |
| Wall        | 19 | 2     | 11 |

| HEATING COIL SELECTION |              |     |           |
|------------------------|--------------|-----|-----------|
| Capacity               | Coil Airflow | Ent | Lvg       |
| kW                     | L/s          | °C  | °C        |
| Main Htg               | -6.9         | 700 | 13.8 22.4 |
| Aux Htg                | 0.0          | 0   | 0.0 0.0   |
| Preheat                | -15.0        | 700 | -4.9 13.8 |
| Reheat                 | -6.6         | 700 | 13.8 22.0 |
| Humidif                | -14.8        | 700 | 0.5 8.1   |
| Opt Vent               | 0.0          | 0   | 0.0 0.0   |
| Total                  | -36.7        |     |           |



Room Checksums

By GOCSA

CL0214 01 QUIROFANO 5

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK         |          |       |          | HEATING COIL PEAK              |           |          |  |
|------------------------------|--------------|--------------|-------|------------------------|----------|-------|----------|--------------------------------|-----------|----------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 36 |          |       |          | Mo/Hr: Heating Design OADB: -5 |           |          |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                  | Percent  | Space | Percent  | Space Peak                     | Coil Peak | Percent  |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible               | Of Total | Total | Of Total | Space Sens                     | Tot Sens  | Of Total |  |
| kW                           | kW           | kW           | kW    | kW                     | (%)      | kW    | (%)      | kW                             | kW        | (%)      |  |
| Envelope Loads               |              |              |       |                        |          |       |          |                                |           |          |  |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Roof Cond                    | 0.00         | 0.26         | 0.26  | 0.00                   | 1        | 0.00  | 0        | 0.00                           | -0.47     | 2        |  |
| Glass Solar                  | 0.86         | 0.00         | 0.86  | 0.00                   | 4        | 0.94  | 16       | 0.00                           | 0.00      | 0        |  |
| Glass Cond                   | 0.09         | 0.00         | 0.09  | 0.00                   | 0        | 0.07  | 1        | -0.23                          | -0.23     | 1        |  |
| Wall Cond                    | 0.10         | 0.02         | 0.12  | 0.09                   | 1        | 0.09  | 2        | -0.37                          | -0.45     | 2        |  |
| Partition                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exposed Floor                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 1.05         | 0.28         | 1.33  | 1.10                   | 18       | 1.10  | 18       | -0.60                          | -1.15     | 4        |  |
| Internal Loads               |              |              |       |                        |          |       |          |                                |           |          |  |
| Lights                       | 0.92         | 0.00         | 0.92  | 0.92                   | 15       | 0.92  | 15       | 0.00                           | 0.00      | 0        |  |
| People                       | 0.79         | 0.00         | 0.79  | 0.44                   | 7        | 0.44  | 7        | 0.00                           | 0.00      | 0        |  |
| Misc                         | 3.50         | 0.00         | 3.50  | 3.50                   | 58       | 3.50  | 58       | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 5.21         | 0.00         | 5.21  | 4.86                   | 81       | 4.86  | 81       | 0.00                           | 0.00      | 0        |  |
| Ceiling Load                 |              |              |       |                        |          |       |          |                                |           |          |  |
| Ventilation Load             | 0.03         | -0.03        | 0.00  | 0.03                   | 1        | 0.03  | 1        | -0.05                          | 0         | 0        |  |
| Adj Air Trans Heat           | 0.00         | 0.00         | 15.70 | 0.00                   | 0        | 0.00  | 0        | 0.00                           | -21.56    | 73       |  |
| Dehumid. Ov Sizing           | 0            | 0            | 0     | 0                      | 0        | 0     | 0        | 0                              | 0         | 0        |  |
| OvUndr Sizing                | 0.00         | -0.98        | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exhaust Heat                 | 0.00         | -0.98        | -0.98 | -0.98                  | -4       | -0.98 | -4       | 0.50                           | 0.50      | -2       |  |
| Sup. Fan Heat                | 0.00         | 1.24         | 1.24  | 1.24                   | 5        | 1.24  | 5        | 0.00                           | 0.00      | 0        |  |
| Ret. Fan Heat                | 0.00         | 0.72         | 0.72  | 0.72                   | 3        | 0.72  | 3        | 0.00                           | 0.00      | 0        |  |
| Duct Heat PkUp               | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | -7.24                          | -7.24     | 25       |  |
| Reheat at Design             | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Grand Total ==>              | 6.29         | -0.01        | 23.22 | 5.99                   | 100.00   | 23.22 | 100.00   | -0.65                          | -29.45    | 100.00   |  |

TEMPERATURES

|          |         |         |
|----------|---------|---------|
| SADB     | Cooling | Heating |
| Plenum   | 14.5    | 22.8    |
| Return   | 22.3    | 21.4    |
| Ret/OA   | 23.2    | 21.4    |
| Fn MtrTD | 36.5    | -4.9    |
| Fn BidTD | 0.2     | 0.0     |
| Fn Frict | 0.4     | 0.0     |
|          | 1.1     | 0.0     |

AIRFLOWS

|            |         |         |
|------------|---------|---------|
| Vent       | Cooling | Heating |
| Infil      | 700     | 700     |
| Supply     | 0       | 0       |
| MinStop/Rh | 700     | 700     |
| Return     | 700     | 700     |
| Exhaust    | 700     | 700     |
| Rm Exh     | 0       | 0       |
| Auxil      | 0       | 0       |

ENGINEERING CKS

|            |         |         |
|------------|---------|---------|
| % OA       | Cooling | Heating |
| Lps/m²     | 100.0   | 100.0   |
| Lps/kW     | 15.23   | 15.23   |
| m²/kW      | 30.14   | 30.14   |
| W/m²       | 1.98    | 1.98    |
|            | 505.02  | -804.26 |
| No. People | 6       | 6       |

COOLING COIL SELECTION

| Total Capacity | Sens Cap. | Coil Airflow | Enter | DB/WB/HR | Leave | DB/WB/HR |
|----------------|-----------|--------------|-------|----------|-------|----------|
| kW             | kW        | L/s          | °C    | °C g/kg  | °C    | °C g/kg  |
| Main Clg       | 23.22     | 18.79        | 700   | 36.5     | 13.0  | 12.1     |
| Aux Clg        | 0.00      | 0.00         | 0     | 0.0      | 0.0   | 0.0      |
| Opt Vent       | 0.00      | 0.00         | 0     | 0.0      | 0.0   | 0.0      |
| Total          | 23.22     |              |       |          |       |          |

AREAS

| Gross Total | Glass | (%) |
|-------------|-------|-----|
| m²          |       |     |
| Floor       | 46    |     |
| Part        | 44    |     |
| ExFlr       | 0     | 0   |
| Roof        | 46    | 0   |
| Wall        | 44    | 13  |

HEATING COIL SELECTION

| Capacity | Coil Airflow | Ent | Lvg  |
|----------|--------------|-----|------|
| kW       | L/s          | °C  | °C   |
| Main Htg | -7.9         | 700 | 13.0 |
| Aux Htg  | 0.0          | 0   | 0.0  |
| Preheat  | -14.3        | 700 | -4.9 |
| Reheat   | -7.2         | 700 | 13.0 |
| Humidif  | -14.8        | 700 | 0.5  |
| Opt Vent | 0.0          | 0   | 0.0  |
| Total    | -37.0        |     |      |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums reported as 8865 of 194



Room Checksums

By GOCSA

CL0215 01 QUIROFANO 6

| COOLING COIL PEAK               |  |       |        | CLG SPACE PEAK                           |          |          |          | HEATING COIL PEAK                 |           |          |        | TEMPERATURES |         |     |  |
|---------------------------------|--|-------|--------|--|----------|----------|----------|-----------------------------------|-----------|----------|--------|--------------|---------|-----|--|
| Peaked at Time:<br>Outside Air: |  |       |        | Mo/Hr: 7 / 15<br>OADBWB/Hr: 36 / 22 / 11 |          |          |          | Mo/Hr: Heating Design<br>OADB: -5 |           |          |        |              |         |     |  |
| Sens. + Lat.                    |  | Space | Plenum | Net                                      | Percent  | Space    | Percent  | Space Peak                        | Coil Peak | Percent  | SADB   | Cooling      | Heating |     |  |
| kW                              |  | kW    | kW     | Total                                    | Of Total | Sensible | Of Total | Space Sens                        | Tot Sens  | Of Total | Plenum |              |         |     |  |
|                                 |  |       |        | kW                                       | (%)      | kW       | (%)      | kW                                | kW        | (%)      | Return |              |         |     |  |
| Envelope Loads                  |  |       |        |  |          |          |          |                                   |           |          |        | Fn MtrTD     | 0.2     | 0.0 |  |
| Skylite Solar                   |  |       |        |  |          |          |          |                                   |           |          |        | Fn BidTD     | 0.4     | 0.0 |  |
| Skylite Cond                    |  |       |        |  |          |          |          |                                   |           |          |        | Fn Frict     | 1.1     | 0.0 |  |
| Roof Cond                       |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Glass Solar                     |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Glass Cond                      |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Wall Cond                       |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Partition                       |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Exposed Floor                   |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Infiltration                    |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Sub Total ==>                   |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Internal Loads                  |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Lights                          |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| People                          |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Misc                            |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Sub Total ==>                   |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Ceiling Load                    |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Ventilation Load                |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Adj Air Trans Heat              |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Dehumid. Ov Sizing              |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Ov/Undr Sizing                  |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Exhaust Heat                    |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Sup. Fan Heat                   |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Ret. Fan Heat                   |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Duct Heat PkUp                  |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Reheat at Design                |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
| Grand Total ==>                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
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|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
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|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
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|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
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|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
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|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
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|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
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|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
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|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
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|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
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|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
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|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
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|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
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|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |
|                                 |  |       |        |  |          |          |          |                                   |           |          |        |              |         |     |  |

TEMPERATURES

|          |      |         |      |         |  |
|----------|------|---------|------|---------|--|
| SADB     | 14.8 | Cooling | 22.5 | Heating |  |
| Plenum   | 22.3 |         | 21.4 |         |  |
| Return   | 23.2 |         | 21.4 |         |  |
| Ret/OA   | 36.5 |         | -4.9 |         |  |
| Fn MtrTD | 0.2  |         | 0.0  |         |  |
| Fn BidTD | 0.4  |         | 0.0  |         |  |
| Fn Frict | 1.1  |         | 0.0  |         |  |

AIRFLOWS

|            |     |         |     |         |  |
|------------|-----|---------|-----|---------|--|
| Vent       | 700 | Cooling | 700 | Heating |  |
| Infil      | 0   |         | 0   |         |  |
| Supply     | 700 |         | 700 |         |  |
| MinStop/Rh | 700 |         | 700 |         |  |
| Return     | 700 |         | 700 |         |  |
| Exhaust    | 700 |         | 700 |         |  |
| Rm Exh     | 0   |         | 0   |         |  |
| Auxil      | 0   |         | 0   |         |  |

ENGINEERING CKS

|            |        |         |       |         |         |
|------------|--------|---------|-------|---------|---------|
| % OA       | 100.0  | Cooling | 100.0 | Heating | 100.0   |
| Lps/m²     | 14.93  |         | 14.93 |         | 14.93   |
| Lps/kW     | 27.71  |         |       |         |         |
| m²/kW      | 1.86   |         |       |         |         |
| W/m²       | 538.60 |         |       |         | -783.62 |
| No. People | 6      |         |       |         |         |

COOLING COIL SELECTION

| Total Capacity | Sens Cap. | Coil Airflow | Enter | DB/WB/HR | Leave | DB/WB/HR |
|----------------|-----------|--------------|-------|----------|-------|----------|
| kW             | kW        | L/s          | °C    | °C g/kg  | °C    | °C g/kg  |
| Main Clg       | 25.26     | 18.25        | 36.5  | 21.6     | 13.3  | 11.2     |
| Aux Clg        | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      |
| Opt Vent       | 0.00      | 0.00         | 0.0   | 0.0      | 0.0   | 0.0      |
| Total          | 25.26     |              |       |          |       |          |

AREAS

| Gross Total | Glass | (%) |
|-------------|-------|-----|
| m²          |       |     |
| Floor       | 47    |     |
| Part        | 61    |     |
| ExFlr       | 0     |     |
| Roof        | 47    | 0   |
| Wall        | 27    | 4   |

HEATING COIL SELECTION

| Capacity | Coil Airflow | Ent | Lvg  |
|----------|--------------|-----|------|
| kW       | L/s          | °C  | °C   |
| Main Htg | -7.4         | 700 | 13.3 |
| Aux Htg  | 0.0          | 0   | 0.0  |
| Preheat  | -14.6        | 700 | -4.9 |
| Reheat   | -7.0         | 700 | 13.3 |
| Humidif  | -14.8        | 700 | 0.5  |
| Opt Vent | 0.0          | 0   | 0.0  |
| Total    | -36.8        |     |      |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums reported as 8866 of 194



Room Checksums

By GOCSA

CL0216 01 QUIROFANO 7

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK         |          |       |          | HEATING COIL PEAK              |           |          |  |
|------------------------------|--------------|--------------|-------|------------------------|----------|-------|----------|--------------------------------|-----------|----------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 30 |          |       |          | Mo/Hr: Heating Design OADB: -5 |           |          |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                  | Percent  | Space | Percent  | Space Peak                     | Coil Peak | Percent  |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible               | Of Total | Total | Of Total | Space Sens                     | Tot Sens  | Of Total |  |
| kW                           | kW           | kW           | kW    | kW                     | (%)      | kW    | (%)      | kW                             | kW        | (%)      |  |
| Envelope Loads               |              |              |       |                        |          |       |          |                                |           |          |  |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Roof Cond                    | 0.00         | 0.26         | 0.26  | 0.00                   | 1        | 0.00  | 0        | 0.00                           | -0.48     | 2        |  |
| Glass Solar                  | 0.38         | 0.00         | 0.38  | 0.74                   | 2        | 0.00  | 13       | 0.00                           | 0.00      | 0        |  |
| Glass Cond                   | 0.06         | 0.00         | 0.06  | 0.06                   | 0        | 0.06  | 1        | -0.15                          | -0.15     | 1        |  |
| Wall Cond                    | 0.04         | 0.01         | 0.05  | 0.05                   | 0        | 0.05  | 1        | -0.16                          | -0.19     | 1        |  |
| Partition                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exposed Floor                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 0.48         | 0.27         | 0.75  | 0.85                   | 15       | 0.85  | 15       | -0.31                          | -0.82     | 3        |  |
| Internal Loads               |              |              |       |                        |          |       |          |                                |           |          |  |
| Lights                       | 0.94         | 0.00         | 0.94  | 0.94                   | 16       | 0.94  | 16       | 0.00                           | 0.00      | 0        |  |
| People                       | 0.79         | 0.00         | 0.79  | 0.44                   | 8        | 0.44  | 8        | 0.00                           | 0.00      | 0        |  |
| Misc                         | 3.50         | 0.00         | 3.50  | 3.50                   | 61       | 3.50  | 61       | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 5.23         | 0.00         | 5.23  | 4.88                   | 85       | 4.88  | 85       | 0.00                           | 0.00      | 0        |  |
| Ceiling Load                 |              |              |       |                        |          |       |          |                                |           |          |  |
| Ventilation Load             | 0.03         | -0.03        | 0.00  | 0.03                   | 1        | 0.03  | 1        | -0.05                          | 0         | 0        |  |
| Adj Air Trans Heat           | 0.00         | 0.00         | 18.27 | 0.00                   | 0        | 0.00  | 0        | 0.00                           | -21.56    | 75       |  |
| Dehumid. Ov Sizing           | 0            | 0            | 0     | 0                      | 0        | 0     | 0        | 0                              | 0         | 0        |  |
| OvUndr Sizing                | 0.00         | -0.97        | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exhaust Heat                 | 0.00         | 0.00         | -0.97 | -0.97                  | -4       | 0.00  | 0        | 0.47                           | 0.47      | -2       |  |
| Sup. Fan Heat                | 0.00         | 0.00         | 1.24  | 1.24                   | 5        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Ret. Fan Heat                | 0.00         | 0.72         | 0.72  | 0.72                   | 3        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Duct Heat Pkup               | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | -6.99                          | -6.99     | 24       |  |
| Reheat at Design             | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Grand Total ==>              | 5.74         | -0.01        | 25.24 | 5.76                   | 100.00   | 25.24 | 100.00   | -0.36                          | -28.90    | 100.00   |  |

| TEMPERATURES |      |         |         |
|--------------|------|---------|---------|
| SADB         | 14.8 | Cooling | Heating |
| Plenum       | 22.4 | 22.3    | 21.4    |
| Return       | 23.2 | 21.4    | -4.9    |
| Ret/OA       | 36.5 | 0.2     | 0.0     |
| Fn MtrTD     | 0.4  | 0.4     | 0.0     |
| Fn BidTD     | 1.1  | 1.1     | 0.0     |

| AIRFLOWS   |     |         |         |
|------------|-----|---------|---------|
| Vent       | 700 | Cooling | Heating |
| Infil      | 0   | 700     | 700     |
| Supply     | 700 | 0       | 0       |
| MinStop/Rh | 700 | 700     | 700     |
| Return     | 700 | 700     | 700     |
| Exhaust    | 700 | 700     | 700     |
| Rm Exh     | 0   | 0       | 0       |
| Auxil      | 0   | 0       | 0       |

| ENGINEERING CKS |        |         |         |
|-----------------|--------|---------|---------|
| % OA            | 100.0  | Cooling | Heating |
| Lps/m²          | 14.93  | 100.0   | 100.0   |
| Lps/kW          | 27.72  | 14.93   | 14.93   |
| m²/kW           | 1.86   | 27.72   | 27.72   |
| W/m²            | 538.30 | 1.86    | -782.02 |
| No. People      | 6      | 538.30  | -782.02 |

| COOLING COIL SELECTION |           |              |                    |
|------------------------|-----------|--------------|--------------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR     |
| kW                     | kW        | L/s          | °C °C g/kg         |
| Main Clg               | 25.25     | 18.24        | 700 36.5 21.6 11.5 |
| Aux Clg                | 0.00      | 0.00         | 0 0.0 0.0 0.0      |
| Opt Vent               | 0.00      | 0.00         | 0 0.0 0.0 0.0      |
| Total                  | 25.25     |              |                    |

| AREAS       |    | Glass |    |
|-------------|----|-------|----|
| Gross Total | m² | (%)   |    |
| Floor       | 47 |       |    |
| Part        | 68 |       |    |
| ExFlr       | 0  | 0     |    |
| Roof        | 47 | 0     |    |
| Wall        | 20 | 4     | 18 |

| HEATING COIL SELECTION |              |     |           |
|------------------------|--------------|-----|-----------|
| Capacity               | Coil Airflow | Ent | Lvg       |
| kW                     | L/s          | °C  | °C        |
| Main Htg               | -7.3         | 700 | 13.3 22.4 |
| Aux Htg                | 0.0          | 0   | 0.0 0.0   |
| Preheat                | -14.6        | 700 | -4.9 13.3 |
| Reheat                 | -7.0         | 700 | 13.3 22.0 |
| Humidif                | -14.8        | 700 | 0.5 8.1   |
| Opt Vent               | 0.0          | 0   | 0.0 0.0   |
| Total                  | -36.7        |     |           |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums reported as 8867 of 194



Room Checksums

By GOCSA

CL0217 01 QUIROFANO 8

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK                   |          |          |                    | HEATING COIL PEAK      |           |          |     | TEMPERATURES                   |         |         |  |
|------------------------------|--------------|--------------|-------|----------------------------------|----------|----------|--------------------|------------------------|-----------|----------|-----|--------------------------------|---------|---------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |          |          |                    | Mo/Hr: 9 / 18 OADB: 26 |           |          |     | Mo/Hr: Heating Design OADB: -5 |         |         |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Percent                          | Space    | Percent  | Envelope Loads     | Space Sens             | Coil Peak | Percent  |     | SADB                           | Cooling | Heating |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Of Total                         | Sensible | Of Total |                    | Space Sens             | Tot Sens  | Of Total | (%) | Plenum                         |         |         |  |
| 0.00                         | 0.00         | 0.00         | 0.00  | 0                                | 0.00     | 0        | Skylite Solar      | 0.00                   | 0.00      | 0        | 0   | 22.6                           | 22.3    | 21.4    |  |
| 0.00                         | 0.00         | 0.00         | 0.00  | 0                                | 0.00     | 0        | Skylite Cond       | 0.00                   | 0.00      | 0        | 0   | 23.2                           | 36.5    | -4.9    |  |
| 0.00                         | 0.00         | 0.26         | 0.26  | 1                                | 0.00     | 0        | Roof Cond          | 0.00                   | -0.48     | 2        | 0   | 0.2                            | 0.4     | 0.0     |  |
| 0.76                         | 0.76         | 0.00         | 0.76  | 3                                | 1.65     | 25       | Glass Solar        | 0.00                   | 0.00      | 0        | 0   | 0.4                            | 1.1     | 0.0     |  |
| 0.11                         | 0.00         | 0.00         | 0.11  | 0                                | 0.05     | 1        | Glass Cond         | -0.29                  | -0.29     | 1        | 1   |                                |         |         |  |
| 0.03                         | 0.03         | 0.01         | 0.04  | 0                                | 0.00     | 0        | Wall Cond          | -0.11                  | -0.15     | 1        | 0   |                                |         |         |  |
| 0.00                         | 0.00         | 0.00         | 0.00  | 0                                | 0.00     | 0        | Partition          | 0.00                   | 0.00      | 0        | 0   |                                |         |         |  |
| 0.00                         | 0.00         | 0.00         | 0.00  | 0                                | 0.00     | 0        | Exposed Floor      | 0.00                   | 0.00      | 0        | 0   |                                |         |         |  |
| 0.00                         | 0.00         | 0.00         | 0.00  | 0                                | 0.00     | 0        | Infiltration       | 0.00                   | 0.00      | 0        | 0   |                                |         |         |  |
| 0.90                         | 0.27         |              | 1.17  | 5                                | 1.70     | 26       | Sub Total ==>      | -0.40                  | -0.92     | 3        | 0   |                                |         |         |  |
| Internal Loads               |              |              |       | Internal Loads                   |          |          |                    |                        |           |          |     |                                |         |         |  |
| 0.94                         | 0.00         | 0.00         | 0.94  | 4                                | 0.94     | 14       | Lights             | 0.00                   | 0.00      | 0        | 0   |                                |         |         |  |
| 0.79                         | 0.79         |              | 0.79  | 3                                | 0.44     | 7        | People             | 0.00                   | 0.00      | 0        | 0   |                                |         |         |  |
| 3.50                         | 0.00         | 0.00         | 3.50  | 14                               | 3.50     | 53       | Misc               | 0.00                   | 0.00      | 0        | 0   |                                |         |         |  |
| 5.23                         | 0.00         | 0.00         | 5.23  | 21                               | 4.88     | 74       | Sub Total ==>      | 0.00                   | 0.00      | 0        | 0   |                                |         |         |  |
| Ceiling Load                 |              |              |       | Ceiling Load                     |          |          |                    |                        |           |          |     |                                |         |         |  |
| 0.03                         | 0.03         | -0.03        | 0.00  | 0                                | 0.01     | 0        |                    | -0.05                  | 0         | 0        | 0   |                                |         |         |  |
| 0.00                         | 0.00         | 0.00         | 17.68 | 71                               | 0.00     | 0        | Ventilation Load   | 0.00                   | -21.56    | 72       | 0   |                                |         |         |  |
| 0                            | 0            | 0            | 0     | 0                                | 0        | 0        | Adj Air Trans Heat | 0                      | 0         | 0        | 0   |                                |         |         |  |
| Dehumid. Ov Sizing           |              |              |       | Ov/Undr Sizing                   |          |          |                    |                        |           |          |     |                                |         |         |  |
| 0.00                         | 0.00         | -0.97        | 0.00  | 0                                | 0.00     | 0        | Exhaust Heat       | 0.00                   | 0.00      | 0        | 0   |                                |         |         |  |
| Exhaust Heat                 |              |              | -0.97 | -4                               |          |          | OA Preheat Diff.   | 0.47                   | 0.47      | -2       | 0   |                                |         |         |  |
| Sup. Fan Heat                |              |              | 1.24  | 5                                |          |          | RA Preheat Diff.   | 0.00                   | 0.00      | 0        | 0   |                                |         |         |  |
| Ret. Fan Heat                |              |              | 0.72  | 3                                |          |          | Additional Reheat  | -7.83                  | -7.83     | 26       | 0   |                                |         |         |  |
| Duct Heat PkUp               |              |              | 0.00  | 0                                |          |          | System Plenum Heat | 0.00                   | 0.00      | 0        | 0   |                                |         |         |  |
| Reheat at Design             |              |              | 0.00  | 0                                |          |          | Grand Total ==>    | -0.45                  | -29.84    | 100.00   |     |                                |         |         |  |
| Grand Total ==>              | 6.16         | -0.01        | 25.07 | 100.00                           | 6.59     | 100.00   |                    |                        |           |          |     |                                |         |         |  |

| COOLING COIL SELECTION |           |              |       | AREAS       |       |     |          | HEATING COIL SELECTION |              |      |      |
|------------------------|-----------|--------------|-------|-------------|-------|-----|----------|------------------------|--------------|------|------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | Gross Total | Glass |     |          | Capacity               | Coil Airflow | Ent  | Lvg  |
| kW                     | kW        | L/s          | °C    |             | m²    | (%) |          | kW                     | L/s          | °C   | °C   |
| 25.08                  | 18.67     | 700          | 36.5  | Floor       | 47    |     | Main Htg | -8.3                   | 700          | 12.2 | 22.6 |
| 0.00                   | 0.00      | 0            | 0.0   | Part        | 68    |     | Aux Htg  | 0.0                    | 0            | 0.0  | 0.0  |
| 0.00                   | 0.00      | 0            | 0.0   | ExFlr       | 0     |     | Preheat  | -13.7                  | 700          | -4.9 | 12.2 |
|                        |           |              |       | Roof        | 47    | 0   | Reheat   | -7.8                   | 700          | 12.2 | 22.0 |
|                        |           |              |       | Wall        | 20    | 7   | Humidif  | -14.8                  | 700          | 0.5  | 8.1  |
| 25.08                  |           |              |       |             |       | 36  | Opt Vent | 0.0                    | 0            | 0.0  | 0.0  |
|                        |           |              |       |             |       |     | Total    | -36.8                  |              |      |      |



Room Checksums

By GOCSA

CL0218 01 QUIROFANO 9

| COOLING COIL PEAK                       |  |       |        | CLG SPACE PEAK         |                  |                |                  | HEATING COIL PEAK              |           |                  |  | TEMPERATURES |  |  |  |
|---|--|-------|--------|------------------------|------------------|----------------|------------------|--------------------------------|-----------|------------------|--|--------------|--|--|--|
| Peaked at Time: OADBWB/Hr: 36 / 22 / 11 |  |       |        | Mo/Hr: 7 / 19 OADB: 30 |                  |                |                  | Mo/Hr: Heating Design OADB: -5 |           |                  |  |              |  |  |  |
| Sens. + Lat.                            |  | Space | Plenum | Net Total              | Percent Of Total | Space Sensible | Percent Of Total | Space Peak                     | Coil Peak | Percent Of Total |  |              |  |  |  |
| kW                                      |  | kW    | kW     | kW                     | (%)              | kW             | (%)              | kW                             | kW        | (%)              |  |              |  |  |  |
| Envelope Loads                          |  |       |        |                        |                  |                |                  |                                |           |                  |  |              |  |  |  |
| Skylite Solar                           |  | 0.00  | 0.00   | 0.00                   | 0                | 0.00           | 0                | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Skylite Cond                            |  | 0.00  | 0.00   | 0.00                   | 0                | 0.00           | 0                | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Roof Cond                               |  | 0.00  | 0.26   | 0.26                   | 1                | 0.00           | 0                | 0.00                           | -0.47     | 2                |  |              |  |  |  |
| Glass Solar                             |  | 0.38  | 0.00   | 0.38                   | 2                | 0.74           | 13               | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Glass Cond                              |  | 0.06  | 0.00   | 0.06                   | 0                | 0.06           | 1                | -0.15                          | -0.15     | 1                |  |              |  |  |  |
| Wall Cond                               |  | 0.04  | 0.01   | 0.05                   | 0                | 0.05           | 1                | -0.15                          | -0.19     | 1                |  |              |  |  |  |
| Partition                               |  | 0.00  | 0.00   | 0.00                   | 0                | 0.00           | 0                | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Exposed Floor                           |  | 0.00  | 0.00   | 0.00                   | 0                | 0.00           | 0                | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Infiltration                            |  | 0.00  | 0.00   | 0.00                   | 0                | 0.00           | 0                | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Sub Total ==>                           |  | 0.48  | 0.27   | 0.75                   | 3                | 0.85           | 15               | -0.30                          | -0.81     | 3                |  |              |  |  |  |
| Internal Loads                          |  |       |        |                        |                  |                |                  |                                |           |                  |  |              |  |  |  |
| Lights                                  |  | 0.92  | 0.00   | 0.92                   | 4                | 0.92           | 16               | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| People                                  |  | 0.79  | 0.00   | 0.79                   | 3                | 0.44           | 8                | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Misc                                    |  | 3.50  | 0.00   | 3.50                   | 14               | 3.50           | 61               | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Sub Total ==>                           |  | 5.21  | 0.00   | 5.21                   | 21               | 4.86           | 85               | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Ceiling Load                            |  | 0.03  | -0.03  | 0.00                   | 0                | 0.03           | 1                | -0.05                          | 0         | 0                |  |              |  |  |  |
| Ventilation Load                        |  | 0.00  | 0.00   | 18.27                  | 72               | 0.00           | 0                | 0.00                           | -21.56    | 75               |  |              |  |  |  |
| Adj Air Trans Heat                      |  | 0     | 0      | 0                      | 0                | 0              | 0                | 0                              | 0         | 0                |  |              |  |  |  |
| Dehumid. Ov Sizing                      |  | 0.00  | 0      | 0                      | 0                | 0.00           | 0                | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Ov/Undr Sizing                          |  | 0.00  | -0.97  | 0.00                   | -4               | 0.00           | 0                | 0.00                           | 0.46      | -2               |  |              |  |  |  |
| Exhaust Heat                            |  | 0.00  | 0.00   | 0.00                   | 0                | 0.00           | 0                | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Sup. Fan Heat                           |  | 0.00  | 0.00   | 1.24                   | 5                | 0.00           | 0                | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Ret. Fan Heat                           |  | 0.00  | 0.72   | 0.72                   | 3                | 0.00           | 0                | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Duct Heat PkUp                          |  | 0.00  | 0.00   | 0.00                   | 0                | 0.00           | 0                | -6.97                          | -6.97     | 24               |  |              |  |  |  |
| Reheat at Design                        |  | 0.00  | 0.00   | 0.00                   | 0                | 0.00           | 0                | 0.00                           | 0.00      | 0                |  |              |  |  |  |
| Grand Total ==>                         |  | 5.72  | -0.01  | 25.22                  | 100.00           | 5.74           | 100.00           | -0.35                          | -28.88    | 100.00           |  |              |  |  |  |

| AIRFLOWS |  |  |  | TEMPERATURES |  |  |  |
|----------|--|--|--|--------------|--|--|--|
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| TEMPERATURES |      |         |         |
|--------------|------|---------|---------|
| SADB         | 14.9 | Cooling | Heating |
| Plenum       | 22.4 | 22.3    | 21.4    |
| Return       | 23.2 | 36.5    | -4.9    |
| Fn MtrTD     | 0.2  | 0.2     | 0.0     |
| Fn BidTD     | 0.4  | 0.4     | 0.0     |
| Fn Frict     | 1.1  | 1.1     | 0.0     |

| AIRFLOWS   |     |         |         |
|------------|-----|---------|---------|
| Vent       | 700 | Cooling | Heating |
| Infil      | 0   | 700     | 700     |
| Supply     | 700 | 700     | 700     |
| MinStop/Rh | 700 | 700     | 700     |
| Return     | 700 | 700     | 700     |
| Exhaust    | 700 | 700     | 700     |
| Rm Exh     | 0   | 0       | 0       |
| Auxil      | 0   | 0       | 0       |

| ENGINEERING CKS |        |         |         |
|-----------------|--------|---------|---------|
| % OA            | 100.0  | Cooling | Heating |
| Lps/m²          | 15.21  | 100.0   | 100.0   |
| Lps/kW          | 27.74  | 15.21   | 15.21   |
| m²/kW           | 1.82   | 0       | 0       |
| W/m²            | 547.84 | 1.82    | -796.35 |
| No. People      | 6      |         |         |

| COOLING COIL SELECTION |           |              |                |
|------------------------|-----------|--------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR |
| kW                     | kW        | L/s          | °C °C g/kg     |
| Main Clg               | 25.23     | 18.22        | 13.3 11.2 8.1  |
| Aux Clg                | 0.00      | 0.00         | 0.0 0.0 0.0    |
| Opt Vent               | 0.00      | 0.00         | 0.0 0.0 0.0    |
| Total                  | 25.23     |              |                |

| AREAS       |    | Glass |
|-------------|----|-------|
| Gross Total | m² | (%)   |
| Floor       | 46 |       |
| Part        | 68 |       |
| ExFlr       | 0  | 0     |
| Roof        | 46 | 0     |
| Wall        | 19 | 4     |
| Total       |    | 18    |

| HEATING COIL SELECTION |              |     |           |
|------------------------|--------------|-----|-----------|
| Capacity               | Coil Airflow | Ent | Lvg       |
| kW                     | L/s          | °C  | °C        |
| Main Htg               | -7.3         | 700 | 13.3 22.4 |
| Aux Htg                | 0.0          | 0   | 0.0 0.0   |
| Preheat                | -14.6        | 700 | -4.9 13.3 |
| Reheat                 | -7.0         | 700 | 13.3 22.0 |
| Humidif                | -14.8        | 700 | 0.5 8.1   |
| Opt Vent               | 0.0          | 0   | 0.0 0.0   |
| Total                  | -36.7        |     |           |



Room Checksums

By GOCSA

CL0219 01 QUIROFANO 10

| COOLING COIL PEAK               |              |              |        | CLG SPACE PEAK                            |          |          |          | HEATING COIL PEAK                 |           |          |  |
|---------------------------------|--------------|--------------|--------|---|----------|----------|----------|-----------------------------------|-----------|----------|--|
| Peaked at Time:<br>Outside Air: |              |              |        | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |          |          |          | Mo/Hr: Heating Design<br>OADB: -5 |           |          |  |
| Envelope Loads                  | Space        |              | Plenum | Net                                       | Percent  | Space    | Percent  | Space Peak                        | Coil Peak | Percent  |  |
|                                 | Sens. + Lat. | Sens. + Lat. |        | Total                                     | Of Total | Sensible | Of Total | Space Sens                        | Tot Sens  | Of Total |  |
|                                 | kW           | kW           | kW     | kW  | (%)      | kW       | (%)      | kW                                | kW        | (%)      |  |
| Envelope Loads                  |              |              |        |   |          |          |          |                                   |           |          |  |
| Skylite Solar                   | 0.00         | 0.00         | 0.00   | 0.00                                      | 0        | 0.00     | 0        | 0.00                              | 0.00      | 0        |  |
| Skylite Cond                    | 0.00         | 0.00         | 0.00   | 0.00                                      | 0        | 0.00     | 0        | 0.00                              | 0.00      | 0        |  |
| Roof Cond                       | 0.00         | 0.26         | 0.26   | 0.26                                      | 1        | 0.00     | 0        | 0.00                              | -0.47     | 2        |  |
| Glass Solar                     | 0.76         | 0.00         | 0.00   | 0.76                                      | 3        | 1.22     | 20       | 0.00                              | 0.00      | 0        |  |
| Glass Cond                      | 0.09         | 0.00         | 0.00   | 0.09                                      | 0        | 0.04     | 1        | -0.24                             | -0.24     | 1        |  |
| Wall Cond                       | 0.09         | 0.02         | 0.11   | 0.11                                      | 0        | 0.03     | 0        | -0.37                             | -0.45     | 2        |  |
| Partition                       | 0.00         | 0.00         | 0.00   | 0.00                                      | 0        | 0.00     | 0        | 0.00                              | 0.00      | 0        |  |
| Exposed Floor                   | 0.00         | 0.00         | 0.00   | 0.00                                      | 0        | 0.00     | 0        | 0.00                              | 0.00      | 0        |  |
| Infiltration                    | 0.00         | 0.00         | 0.00   | 0.00                                      | 0        | 0.00     | 0        | 0.00                              | 0.00      | 0        |  |
| Sub Total ==>                   | 0.94         | 0.28         |        | 1.22                                      | 5        | 1.29     | 21       | -0.61                             | -1.16     | 4        |  |
| Internal Loads                  |              |              |        |   |          |          |          |                                   |           |          |  |
| Lights                          | 0.92         | 0.00         | 0.00   | 0.92                                      | 4        | 0.92     | 15       | 0.00                              | 0.00      | 0        |  |
| People                          | 0.79         | 0.00         | 0.00   | 0.79                                      | 3        | 0.44     | 7        | 0.00                              | 0.00      | 0        |  |
| Misc                            | 3.50         | 0.00         | 0.00   | 3.50                                      | 15       | 3.50     | 57       | 0.00                              | 0.00      | 0        |  |
| Sub Total ==>                   | 5.21         | 0.00         | 0.00   | 5.21                                      | 22       | 4.86     | 79       | 0.00                              | 0.00      | 0        |  |
| Ceiling Load                    | 0.03         | -0.03        | 0.00   | 0.00                                      | 0        | 0.01     | 0        | -0.05                             | 0         | 0        |  |
| Ventilation Load                | 0.00         | 0.00         | 0.00   | 16.47                                     | 69       | 0.00     | 0        | 0.00                              | -21.56    | 73       |  |
| Adj Air Trans Heat              | 0            | 0.00         | 0.00   | 0   | 0        | 0        | 0        | 0                                 | 0         | 0        |  |
| Dehumid. Ov Sizing              | 0.00         | -0.98        | 0.00   | 0.00                                      | 0        | 0.00     | 0        | 0.00                              | 0.00      | 0        |  |
| OvUndr Sizing                   |              |              |        |   |          |          |          |                                   |           |          |  |
| Exhaust Heat                    |              |              |        | -0.98                                     | -4       |          |          | 0.50                              | 0.50      | -2       |  |
| Sup. Fan Heat                   |              |              |        | 1.24                                      | 5        |          |          | 0.00                              | 0.00      | 0        |  |
| Ret. Fan Heat                   |              |              |        | 0.72                                      | 3        |          |          | 0.00                              | 0.00      | 0        |  |
| Duct Heat PkUp                  |              |              |        | 0.00                                      | 0        |          |          | -7.40                             | -7.40     | 25       |  |
| Reheat at Design                |              |              |        | 0.00                                      | 0        |          |          | 0.00                              | 0.00      | 0        |  |
| Grand Total ==>                 | 6.18         | -0.01        |        | 23.88                                     | 100.00   | 6.16     | 100.00   | -0.66                             | -29.62    | 100.00   |  |

| TEMPERATURES |      |         |         |
|--------------|------|---------|---------|
| SADB         | 14.3 | Cooling | Heating |
| Plenum       | 22.8 | 22.3    | 21.4    |
| Return       | 23.2 | 36.5    | -4.9    |
| Ret/OA       | 21.4 |         |         |
| Fn MtrTD     | 0.2  | 0.0     | 0.0     |
| Fn BidTD     | 0.4  | 0.4     | 0.0     |
| Fn Frict     | 1.1  | 1.1     | 0.0     |

| AIRFLOWS   |     |         |         |
|------------|-----|---------|---------|
| Vent       | 700 | Cooling | Heating |
| Infil      | 0   | 700     | 700     |
| Supply     | 700 | 0       | 0       |
| MinStop/Rh | 700 | 700     | 700     |
| Return     | 700 | 700     | 700     |
| Exhaust    | 700 | 700     | 700     |
| Rm Exh     | 0   | 0       | 0       |
| Auxil      | 0   | 0       | 0       |

| ENGINEERING CKS |        |         |         |
|-----------------|--------|---------|---------|
| % OA            | 100.0  | Cooling | Heating |
| Lps/m²          | 15.21  | 100.0   | 100.0   |
| Lps/kW          | 29.29  |         |         |
| m²/kW           | 1.93   |         |         |
| W/m²            | 518.82 |         | -803.20 |
| No. People      | 6      |         |         |

| COOLING COIL SELECTION |           |              |                |                |
|------------------------|-----------|--------------|----------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR | Leave DB/WB/HR |
| kW                     | kW        | L/s          | °C             | °C             |
| Main Clg               | 23.89     | 700          | 36.5           | 12.8           |
| Aux Clg                | 0.00      | 0            | 0.0            | 0.0            |
| Opt Vent               | 0.00      | 0            | 0.0            | 0.0            |
| Total                  | 23.89     |              |                |                |

| AREAS       |    | Glass |    |
|-------------|----|-------|----|
| Gross Total | m² | (%)   |    |
| Floor       | 46 |       |    |
| Part        | 44 |       |    |
| ExFlr       | 0  | 0     |    |
| Roof        | 46 |       |    |
| Wall        | 44 | 6     | 14 |

| HEATING COIL SELECTION |              |     |      |
|------------------------|--------------|-----|------|
| Capacity               | Coil Airflow | Ent | Lvg  |
| kW                     | L/s          | °C  | °C   |
| Main Htg               | -8.1         | 700 | 12.8 |
| Aux Htg                | 0.0          | 0   | 0.0  |
| Preheat                | -14.2        | 700 | -4.9 |
| Reheat                 | -7.4         | 700 | 12.8 |
| Humidif                | -14.8        | 700 | 0.5  |
| Opt Vent               | 0.0          | 0   | 0.0  |
| Total                  | -37.0        |     |      |



Room Checksums

By GOCSA

CL0220 01 CONTROL

| COOLING COIL PEAK                                    |  |       |             |  |       |  |          |          |  | CLG SPACE PEAK         |            |  |           | HEATING COIL PEAK              |            |  |  | TEMPERATURES   |         |  |  |
|--|--|-------|-------------|--|-------|--|----------|----------|--|------------------------|------------|--|-----------|--------------------------------|------------|--|--|--|---------|--|--|
| Peaked at Time: Outside Air: OADBWB/HR: 36 / 22 / 11 |  |       |             |  |       |  |          |          |  | Mo/Hr: 7 / 19 OADB: 30 |            |  |           | Mo/Hr: Heating Design OADB: -5 |            |  |  | SADB Plenum Return Ret/OA Fn MtrTD Fn BldTD Fn Frict |         |  |  |
| Sens. + Lat.   |  | Space | Plenum      |  | Net   |  | Percent  | Space    |  | Percent                | Space Peak |  | Coil Peak | Percent                        | Cooling    |  |  |  | Heating |  |  |
| Sens. + Lat.   |  | kW    | Sens. + Lat |  | Total |  | Of Total | Sensible |  | Of Total               | Space Sens |  | Tot Sens  | Of Total                       | kW         |  |  |  | °C      |  |  |
| Sens. + Lat.   |  | kW    | kW          |  | kW    |  | (%)      | kW       |  | (%)                    | kW         |  | kW        | (%)                            |            |  |  |  |         |  |  |
| Envelope Loads                                       |  |       |             |  |       |  |          |          |  | Envelope Loads         |            |  |           |                                |            |  |  |  |         |  |  |
| Skylite Solar  |  | 0.00  | 0.00        |  | 0.00  |  | 0        | 0.00     |  | 0                      | 0.00       |  | 0.00      | 0                              | 15.6       |  |  |  | 23.2    |  |  |
| Skylite Cond   |  | 0.00  | 0.00        |  | 0.00  |  | 0        | 0.00     |  | 0                      | 0.00       |  | 0.00      | 0                              | 22.7       |  |  |  | 21.0    |  |  |
| Roof Cond  |  | 0.00  | 0.82        |  | 0.82  |  | 2        | 0.00     |  | 0                      | 0.00       |  | -1.51     | 3                              | 23.6       |  |  |  | 21.0    |  |  |
| Glass Solar  |  | 1.68  | 0.00        |  | 1.68  |  | 4        | 2.13     |  | 24                     | 0.00       |  | 0.00      | 0                              | 36.5       |  |  |  | -4.9    |  |  |
| Glass Cond   |  | 0.33  | 0.00        |  | 0.33  |  | 1        | 0.33     |  | 4                      | -0.88      |  | -0.88     | 2                              | 0.2        |  |  |  | 0.0     |  |  |
| Wall Cond  |  | 0.10  | 0.02        |  | 0.12  |  | 0        | 0.12     |  | 1                      | -0.47      |  | -0.60     | 1                              | 0.4        |  |  |  | 0.0     |  |  |
| Partition  |  | 0.00  | 0.00        |  | 0.00  |  | 0        | 0.00     |  | 0                      | 0.00       |  | 0.00      | 0                              | 1.1        |  |  |  | 0.0     |  |  |
| Exposed Floor  |  | 0.00  | 0.00        |  | 0.00  |  | 0        | 0.00     |  | 0                      | 0.00       |  | 0.00      | 0                              |            |  |  |  |         |  |  |
| Infiltration   |  | 0.00  | 0.00        |  | 0.00  |  | 0        | 0.00     |  | 0                      | 0.00       |  | 0.00      | 0                              |            |  |  |  |         |  |  |
| Sub Total ==>  |  | 2.11  | 0.84        |  | 2.95  |  | 7        | 2.58     |  | 29                     | -1.35      |  | -2.99     | 6                              |            |  |  |  |         |  |  |
| Internal Loads                                       |  |       |             |  |       |  |          |          |  | Internal Loads         |            |  |           |                                |            |  |  | AIRFLOWS   |         |  |  |
| Lights   |  | 1.32  | 0.33        |  | 1.65  |  | 4        | 1.32     |  | 15                     | 0.00       |  | 0.00      | 0                              | Vent       |  |  |  | Cooling |  |  |
| People   |  | 1.98  | 0.00        |  | 1.98  |  | 5        | 1.10     |  | 12                     | 0.00       |  | 0.00      | 0                              | 1,214      |  |  |  | 1,214   |  |  |
| Misc   |  | 3.75  | 0.00        |  | 3.75  |  | 9        | 3.75     |  | 42                     | 0.00       |  | 0.00      | 0                              | 1,214      |  |  |  | 1,214   |  |  |
| Sub Total ==>  |  | 7.05  | 0.33        |  | 7.38  |  | 17       | 6.17     |  | 69                     | 0.00       |  | 0.00      | 0                              | 1,214      |  |  |  | 1,214   |  |  |
| Ceiling Load   |  |       |             |  |       |  |          |          |  | Ceiling Load           |            |  |           |                                |            |  |  | ENGINEERING CKS                                      |         |  |  |
| Ventilation Load                                     |  | 0.19  | -0.19       |  | 0.00  |  | 0        | 0.21     |  | 2                      | -0.27      |  | 0         | 0                              | Cooling    |  |  |  | Heating |  |  |
| Adj Air Trans Heat                                   |  | 0     | 0.00        |  | 31.43 |  | 72       | 0.00     |  | 0                      | 0.00       |  | -37.38    | 74                             | 100.0      |  |  |  | 100.0   |  |  |
| Dehumid. Ov Sizing                                   |  | 0.00  | 0.00        |  | 1     |  | 2        | 0.00     |  | 0                      | 0.00       |  | 0.00      | 0                              | % OA       |  |  |  | 8.07    |  |  |
| OvUndr Sizing  |  | 0.00  | 0.00        |  | 0.00  |  | 0        | 0.00     |  | 0                      | 0.00       |  | 0.00      | 0                              | Lps/m²     |  |  |  | 8.07    |  |  |
| Exhaust Heat   |  | 0.00  | -2.24       |  | -2.24 |  | -5       | 0.00     |  | 0                      | 0.00       |  | 1.37      | -3                             | Lps/kW     |  |  |  | 27.62   |  |  |
| Sup. Fan Heat  |  | 0.00  | 0.00        |  | 2.15  |  | 5        | 0.00     |  | 0                      | 0.00       |  | 0.00      | 0                              | m²/kW      |  |  |  | 3.42    |  |  |
| Ret. Fan Heat  |  | 0.00  | 1.26        |  | 1.26  |  | 3        | 0.00     |  | 0                      | 0.00       |  | -11.58    | 23                             | W/m²       |  |  |  | 291.98  |  |  |
| Duct Heat PkUp                                       |  | 0.00  | 0.00        |  | 0.00  |  | 0        | 0.00     |  | 0                      | 0.00       |  | 0.00      | 0                              | No. People |  |  |  | 15      |  |  |
| Reheat at Design                                     |  | 0.00  | 0.00        |  | 0.00  |  | 0        | 0.00     |  | 0                      | 0.00       |  | 0.00      | 0                              |            |  |  |  | -432.40 |  |  |
| Grand Total ==>                                      |  | 9.35  | 0.00        |  | 43.93 |  | 100.00   | 8.96     |  | 100.00                 | -1.62      |  | -50.58    | 100.00                         |            |  |  |  |         |  |  |

| COOLING COIL SELECTION |  |              |  |          |  |            |  |          |  | AREAS       |  |       |  | HEATING COIL SELECTION |  |         |  |                  |  |         |  |         |  |          |  |          |  |
|------------------------|--|--------------|--|----------|--|------------|--|----------|--|-------------|--|-------|--|------------------------|--|---------|--|------------------|--|---------|--|---------|--|----------|--|----------|--|
| Total Capacity kW      |  |              |  |          |  |            |  |          |  | Gross Total |  |       |  | Capacity kW            |  |         |  | Coil Airflow L/s |  |         |  | Lvg °C  |  |          |  |          |  |
| Sens Cap.              |  | Coil Airflow |  | Enter °C |  | DBWB/HR °C |  | Leave °C |  | DBWB/HR °C  |  | Floor |  | Main Htg               |  | Aux Htg |  | Preheat          |  | Reheat  |  | Humidif |  | Opt Vent |  | Total    |  |
| kW                     |  | L/s          |  | °C       |  | g/kg       |  | °C       |  | g/kg        |  | Part  |  | AuxHtg                 |  | Roof    |  | Wall             |  | Preheat |  | Reheat  |  | Humidif  |  | Opt Vent |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 43.93                  |  | 1.214        |  | 36.5     |  | 21.6       |  | 13.7     |  | 11.5        |  | 150   |  | 98                     |  | 150     |  | 72               |  | -13.2   |  | -26.3   |  | -25.6    |  | -65.1    |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0.0     |  | 0.0     |  | 0.0      |  | 0.0      |  |
| 0.00                   |  | 0            |  | 0.0      |  | 0.0        |  | 0.0      |  | 0.0         |  | 0     |  | 0                      |  | 0       |  | 0                |  | 0       |  |         |  |          |  |          |  |



## Room Checksums

By GOCSA

## CL0221 01 ESTAR PERSONAL

| COOLING COIL PEAK            |      |       |             |  |       |  |          |  |          | CLG SPACE PEAK                         |  |           |  | HEATING COIL PEAK   |  |            |  | TEMPERATURES |  |         |  |
|------------------------------|------|-------|-------------|--|-------|--|----------|--|----------|--|--|-----------|--|---|--|------------|--|--------------|--|---------|--|
| Peaked at Time: Outside Air: |      |       |             |  |       |  |          |  |          | Mo/Hr: 7 / 15 OADB/WB/HR: 36 / 22 / 11 |  |           |  | Mo/Hr: Heating Design OADB: -5  |  |            |  |              |  |         |  |
| Sens. + Lat.                 |      | Space | Plenum      |  | Net   |  | Space    |  | Percent  | Space Peak                             |  | Coil Peak |  | Percent   |  | SADB       |  | Cooling      |  | Heating |  |
| kW                           |      | kW    | Sens. + Lat |  | Total |  | Sensible |  | Of Total | Space Sens                             |  | Tot Sens  |  | Of Total  |  | Plenum     |  | 22.8         |  | 24.5    |  |
| 0.00                         |      | 0.00  | 0.00        |  | 0.00  |  | 0.00     |  | 0        | 0.00                                   |  | 0.00      |  | 0   |  | Return     |  | 23.7         |  | 21.0    |  |
| 0.00                         |      | 0.00  | 0.11        |  | 0.11  |  | 0.00     |  | 2        | 0.00                                   |  | -0.20     |  | 0   |  | Ret/OA     |  | 36.5         |  | -4.9    |  |
| 0.71                         |      | 0.11  | 0.00        |  | 0.71  |  | 0.77     |  | 44       | 0.09                                   |  | 0.00      |  | 0   |  | Fn MtrTD   |  | 0.2          |  | 0.0     |  |
| 0.11                         |      | 0.00  | 0.01        |  | 0.11  |  | 0.05     |  | 3        | 0.05                                   |  | -0.29     |  | 3   |  | Fn BidTD   |  | 0.4          |  | 0.0     |  |
| 0.05                         |      | 0.02  | 0.02        |  | 0.02  |  | 0.02     |  | 1        | 0.00                                   |  | -0.04     |  | 0   |  | Fn Frict   |  | 1.1          |  | 0.0     |  |
| 0.02                         |      | 0.00  | 0.00        |  | 0.00  |  | 0.00     |  | 0        | 0.00                                   |  | 0.00      |  | 0   |  |            |  |              |  |         |  |
| 0.00                         |      | 0.00  | 0.00        |  | 0.00  |  | 0.00     |  | 0        | 0.00                                   |  | 0.00      |  | 0   |  |            |  |              |  |         |  |
| 0.00                         |      | 0.00  | 0.00        |  | 0.00  |  | 0.00     |  | 0        | 0.00                                   |  | 0.00      |  | 0   |  |            |  |              |  |         |  |
| 0.89                         |      | 0.12  | 0.12        |  | 1.01  |  | 0.93     |  | 53       | -0.56                                  |  | -0.81     |  | 9   |  |            |  |              |  |         |  |
| Sub Total ==>                |      |       |             |  |       |  |          |  |          |  |  |           |  |   |  |            |  |              |  |         |  |
| Internal Loads               |      |       |             |  |       |  |          |  |          |  |  |           |  |   |  |            |  |              |  |         |  |
| Lights                       | 0.17 |       | 0.04        |  | 0.21  |  | 0.17     |  | 10       | 0.00                                   |  | 0.00      |  | 0 <td colspan="2">Vent</td> <td colspan="2">209</td> <td colspan="2">209</td>       |  | Vent       |  | 209          |  | 209     |  |
| People                       | 0.53 |       |             |  | 0.53  |  | 0.29     |  | 16       | 0.00                                   |  | 0.00      |  | 0 <td colspan="2">Infil</td> <td colspan="2">0</td> <td colspan="2">0</td>          |  | Infil      |  | 0            |  | 0       |  |
| Misc                         | 0.35 |       | 0.00        |  | 0.35  |  | 0.35     |  | 20       | 0.00                                   |  | 0.00      |  | 0 <td colspan="2">Supply</td> <td colspan="2">209</td> <td colspan="2">209</td>     |  | Supply     |  | 209          |  | 209     |  |
| Sub Total ==>                | 1.05 |       | 0.04        |  | 1.09  |  | 0.81     |  | 46       | 0.00                                   |  | 0.00      |  | 0 <td colspan="2">MinStop/Rh</td> <td colspan="2">209</td> <td colspan="2">209</td> |  | MinStop/Rh |  | 209          |  | 209     |  |
| Ceiling Load                 | 0.03 |       | -0.03       |  | 0.00  |  | 0.03     |  | 2        | -0.04                                  |  | 0         |  | 0 <td colspan="2">Return</td> <td colspan="2">209</td> <td colspan="2">209</td>     |  | Return     |  | 209          |  | 209     |  |
| Ventilation Load             | 0.00 |       | 0.00        |  | 4.54  |  | 0.00     |  | 0        | 0.00                                   |  | -6.42     |  | 70 <td colspan="2">Exhaust</td> <td colspan="2">0</td> <td colspan="2">0</td>       |  | Exhaust    |  | 0            |  | 0       |  |
| Adj Air Trans Heat           | 0    |       |             |  | 0     |  | 0        |  | 0        | 0                                      |  | 0         |  | 0 <td colspan="2">Rm Exh</td> <td colspan="2">0</td> <td colspan="2">0</td>         |  | Rm Exh     |  | 0            |  | 0       |  |
| Dehumid. Ov Sizing           |      |       |             |  | 0     |  |          |  | 0        |  |  |           |  | 0 <td colspan="2">Auxil</td> <td colspan="2">0</td> <td colspan="2">0</td>          |  | Auxil      |  | 0            |  | 0       |  |
| Ov/Undr Sizing               | 0.00 |       | -0.41       |  | 0.00  |  | 0.00     |  | 0        | 0.00                                   |  | 0.00      |  | 0 <td colspan="2"></td> <td colspan="2">100.0</td> <td colspan="2">100.0</td>       |  |            |  | 100.0        |  | 100.0   |  |
| Exhaust Heat                 |      |       |             |  | -0.41 |  |          |  | 0        | 0.00                                   |  | 0.25      |  | -3  |  |            |  | 10.57        |  | 10.57   |  |
| Sup. Fan Heat                |      |       |             |  | 0.37  |  |          |  | 5        | 0.00                                   |  | 0.00      |  | 0 <td colspan="2"></td> <td colspan="2">30.58</td> <td colspan="2"></td>            |  |            |  | 30.58        |  |         |  |
| Ret. Fan Heat                |      |       | 0.22        |  | 0.22  |  | 0.22     |  | 3        | 0.00                                   |  | 0.00      |  | 0 <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td>                 |  |            |  |              |  |         |  |
| Duct Heat Pkup               |      |       | 0.00        |  | 0.00  |  | 0.00     |  | 0        | -2.15                                  |  | -2.15     |  | 23  |  |            |  | 2.89         |  |         |  |
| Reheat at Design             |      |       |             |  | 0.00  |  |          |  | 0        | -0.03                                  |  | -0.03     |  | 0 <td colspan="2"></td> <td colspan="2">345.38</td> <td colspan="2">-578.46</td>    |  |            |  | 345.38       |  | -578.46 |  |
| Grand Total ==>              | 1.97 |       | -0.06       |  | 6.82  |  | 1.77     |  | 100.00   | -0.60                                  |  | -9.16     |  | 100.00  |  | No. People |  | 4            |  |         |  |

| COOLING COIL SELECTION |      |           |     |              |      |                |      |                |     | AREAS       |    |        |    | HEATING COIL SELECTION |     |              |      |     |  |      |  |
|------------------------|------|-----------|-----|--------------|------|----------------|------|----------------|-----|-------------|----|--------|----|------------------------|-----|--------------|------|-----|--|------|--|
| Total Capacity         |      | Sens Cap. |     | Coil Airflow |      | Enter DB/WB/HR |      | Leave DB/WB/HR |     | Gross Total |    | Glass  |    | Capacity               |     | Coil Airflow |      | Ent |  | Lvgr |  |
| kW                     |      | kW        |     | L/s          |      | °C g/kg        |      | °C g/kg        |     | m²          |    | m² (%) |    | kW                     |     | L/s          |      | °C  |  | °C   |  |
| Main Clg               | 6.82 | 5.50      | 209 | 36.5         | 21.6 | 11.5           | 13.0 | 12.3           | 9.5 | Floor       | 20 |        |    | -2.8                   | 209 | 13.0         | 24.5 |     |  |      |  |
| Aux Clg                | 0.00 | 0.00      | 0   | 0.0          | 0.0  | 0.0            | 0.0  | 0.0            | 0.0 | Part        | 31 |        |    | 0.0                    | 0   | 0.0          | 0.0  |     |  |      |  |
| Opt Vent               | 0.00 | 0.00      | 0   | 0.0          | 0.0  | 0.0            | 0.0  | 0.0            | 0.0 | ExFlr       | 0  | 0      | 0  | -4.3                   | 209 | -4.9         | 13.0 |     |  |      |  |
| Total                  | 6.82 |           |     |              |      |                |      |                |     | Roof        | 20 | 7      | 23 | -2.2                   | 209 | 13.0         | 22.0 |     |  |      |  |
|                        |      |           |     |              |      |                |      |                |     | Wall        | 31 |        |    | -4.4                   | 209 | 0.5          | 8.1  |     |  |      |  |
|                        |      |           |     |              |      |                |      |                |     |             |    |        |    | 0.0                    | 0   | 0.0          | 0.0  |     |  |      |  |
|                        |      |           |     |              |      |                |      |                |     |             |    |        |    | -11.4                  |     |              |      |     |  |      |  |



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| COOLING COIL PEAK               |  |  |  |  |                                       |  |  |  |  | CLG SPACE PEAK           |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK       |  |  |  |  |                             |  |  |  |  | TEMPERATURES               |  |  |  |  |                    |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|---------------------------------|--|--|--|--|---------------------------------------|--|--|--|--|--------------------------|--|--|--|--|-----------------------------------|--|--|--|--|-------------------------|--|--|--|--|-----------------------------|--|--|--|--|----------------------------|--|--|--|--|--------------------|--|--|--|--|--------------------|--|--|--|--|----------------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 2<br>OADBWB/HR: 19 / 9 / 4 |  |  |  |  | Mo/Hr: 7 / 2<br>OADB: 19 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB                    |  |  |  |  | Cooling                     |  |  |  |  | Heating                    |  |  |  |  |                    |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
| Space<br>Sens. + Lat.<br>kW     |  |  |  |  | Plenum<br>Sens. + Lat<br>kW           |  |  |  |  | Net<br>Total<br>kW       |  |  |  |  | Percent<br>Of Total<br>(%)        |  |  |  |  | Space<br>Sensible<br>kW |  |  |  |  | Coil Peak<br>Tot Sens<br>kW |  |  |  |  | Percent<br>Of Total<br>(%) |  |  |  |  | Return             |  |  |  |  | Plenum             |  |  |  |  |                |  |  |  |  |
| Envelope Loads                  |  |  |  |  | Envelope Loads                        |  |  |  |  | Envelope Loads           |  |  |  |  | Envelope Loads                    |  |  |  |  | Envelope Loads          |  |  |  |  | Envelope Loads              |  |  |  |  | Envelope Loads             |  |  |  |  | Envelope Loads     |  |  |  |  | Envelope Loads     |  |  |  |  | Envelope Loads |  |  |  |  |
| Skylite Solar                   |  |  |  |  | Skylite Solar                         |  |  |  |  | Skylite Solar            |  |  |  |  | Skylite Solar                     |  |  |  |  | Skylite Solar           |  |  |  |  | Skylite Solar               |  |  |  |  | Skylite Solar              |  |  |  |  | Skylite Solar      |  |  |  |  | Skylite Solar      |  |  |  |  | Skylite Solar  |  |  |  |  |
| Skylite Cond                    |  |  |  |  | Skylite Cond                          |  |  |  |  | Skylite Cond             |  |  |  |  | Skylite Cond                      |  |  |  |  | Skylite Cond            |  |  |  |  | Skylite Cond                |  |  |  |  | Skylite Cond               |  |  |  |  | Skylite Cond       |  |  |  |  | Skylite Cond       |  |  |  |  | Skylite Cond   |  |  |  |  |
| Roof Cond                       |  |  |  |  | Roof Cond                             |  |  |  |  | Roof Cond                |  |  |  |  | Roof Cond                         |  |  |  |  | Roof Cond               |  |  |  |  | Roof Cond                   |  |  |  |  | Roof Cond                  |  |  |  |  | Roof Cond          |  |  |  |  | Roof Cond          |  |  |  |  | Roof Cond      |  |  |  |  |
| Glass Solar                     |  |  |  |  | Glass Solar                           |  |  |  |  | Glass Solar              |  |  |  |  | Glass Solar                       |  |  |  |  | Glass Solar             |  |  |  |  | Glass Solar                 |  |  |  |  | Glass Solar                |  |  |  |  | Glass Solar        |  |  |  |  | Glass Solar        |  |  |  |  | Glass Solar    |  |  |  |  |
| Glass Cond                      |  |  |  |  | Glass Cond                            |  |  |  |  | Glass Cond               |  |  |  |  | Glass Cond                        |  |  |  |  | Glass Cond              |  |  |  |  | Glass Cond                  |  |  |  |  | Glass Cond                 |  |  |  |  | Glass Cond         |  |  |  |  | Glass Cond         |  |  |  |  | Glass Cond     |  |  |  |  |
| Wall Cond                       |  |  |  |  | Wall Cond                             |  |  |  |  | Wall Cond                |  |  |  |  | Wall Cond                         |  |  |  |  | Wall Cond               |  |  |  |  | Wall Cond                   |  |  |  |  | Wall Cond                  |  |  |  |  | Wall Cond          |  |  |  |  | Wall Cond          |  |  |  |  | Wall Cond      |  |  |  |  |
| Partition                       |  |  |  |  | Partition                             |  |  |  |  | Partition                |  |  |  |  | Partition                         |  |  |  |  | Partition               |  |  |  |  | Partition                   |  |  |  |  | Partition                  |  |  |  |  | Partition          |  |  |  |  | Partition          |  |  |  |  | Partition      |  |  |  |  |
| Exposed Floor                   |  |  |  |  | Exposed Floor                         |  |  |  |  | Exposed Floor            |  |  |  |  | Exposed Floor                     |  |  |  |  | Exposed Floor           |  |  |  |  | Exposed Floor               |  |  |  |  | Exposed Floor              |  |  |  |  | Exposed Floor      |  |  |  |  | Exposed Floor      |  |  |  |  | Exposed Floor  |  |  |  |  |
| Infiltration                    |  |  |  |  | Infiltration                          |  |  |  |  | Infiltration             |  |  |  |  | Infiltration                      |  |  |  |  | Infiltration            |  |  |  |  | Infiltration                |  |  |  |  | Infiltration               |  |  |  |  | Infiltration       |  |  |  |  | Infiltration       |  |  |  |  | Infiltration   |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | Sub Total ==>                         |  |  |  |  | Sub Total ==>            |  |  |  |  | Sub Total ==>                     |  |  |  |  | Sub Total ==>           |  |  |  |  | Sub Total ==>               |  |  |  |  | Sub Total ==>              |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>      |  |  |  |  |                |  |  |  |  |
| Internal Loads                  |  |  |  |  | Internal Loads                        |  |  |  |  | Internal Loads           |  |  |  |  | Internal Loads                    |  |  |  |  | Internal Loads          |  |  |  |  | Internal Loads              |  |  |  |  | Internal Loads             |  |  |  |  | Internal Loads     |  |  |  |  | Internal Loads     |  |  |  |  |                |  |  |  |  |
| Lights                          |  |  |  |  | Lights                                |  |  |  |  | Lights                   |  |  |  |  | Lights                            |  |  |  |  | Lights                  |  |  |  |  | Lights                      |  |  |  |  | Lights                     |  |  |  |  | Lights             |  |  |  |  | Lights             |  |  |  |  | Lights         |  |  |  |  |
| People                          |  |  |  |  | People                                |  |  |  |  | People                   |  |  |  |  | People                            |  |  |  |  | People                  |  |  |  |  | People                      |  |  |  |  | People                     |  |  |  |  | People             |  |  |  |  | People             |  |  |  |  | People         |  |  |  |  |
| Misc                            |  |  |  |  | Misc                                  |  |  |  |  | Misc                     |  |  |  |  | Misc                              |  |  |  |  | Misc                    |  |  |  |  | Misc                        |  |  |  |  | Misc                       |  |  |  |  | Misc               |  |  |  |  | Misc               |  |  |  |  | Misc           |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | Sub Total ==>                         |  |  |  |  | Sub Total ==>            |  |  |  |  | Sub Total ==>                     |  |  |  |  | Sub Total ==>           |  |  |  |  | Sub Total ==>               |  |  |  |  | Sub Total ==>              |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>      |  |  |  |  |                |  |  |  |  |
| Ceiling Load                    |  |  |  |  | Ceiling Load                          |  |  |  |  | Ceiling Load             |  |  |  |  | Ceiling Load                      |  |  |  |  | Ceiling Load            |  |  |  |  | Ceiling Load                |  |  |  |  | Ceiling Load               |  |  |  |  | Ceiling Load       |  |  |  |  | Ceiling Load       |  |  |  |  |                |  |  |  |  |
| Ventilation Load                |  |  |  |  | Ventilation Load                      |  |  |  |  | Ventilation Load         |  |  |  |  | Ventilation Load                  |  |  |  |  | Ventilation Load        |  |  |  |  | Ventilation Load            |  |  |  |  | Ventilation Load           |  |  |  |  | Ventilation Load   |  |  |  |  | Ventilation Load   |  |  |  |  |                |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | Adj Air Trans Heat                    |  |  |  |  | Adj Air Trans Heat       |  |  |  |  | Adj Air Trans Heat                |  |  |  |  | Adj Air Trans Heat      |  |  |  |  | Adj Air Trans Heat          |  |  |  |  | Adj Air Trans Heat         |  |  |  |  | Adj Air Trans Heat |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | Dehumid. Ov Sizing                    |  |  |  |  | Dehumid. Ov Sizing       |  |  |  |  | Dehumid. Ov Sizing                |  |  |  |  | Dehumid. Ov Sizing      |  |  |  |  | Dehumid. Ov Sizing          |  |  |  |  | Dehumid. Ov Sizing         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                |  |  |  |  |
| OvUndr Sizing                   |  |  |  |  | OvUndr Sizing                         |  |  |  |  | OvUndr Sizing            |  |  |  |  | OvUndr Sizing                     |  |  |  |  | OvUndr Sizing           |  |  |  |  | OvUndr Sizing               |  |  |  |  | OvUndr Sizing              |  |  |  |  | OvUndr Sizing      |  |  |  |  | OvUndr Sizing      |  |  |  |  |                |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | Exhaust Heat                          |  |  |  |  | Exhaust Heat             |  |  |  |  | Exhaust Heat                      |  |  |  |  | Exhaust Heat            |  |  |  |  | Exhaust Heat                |  |  |  |  | Exhaust Heat               |  |  |  |  | Exhaust Heat       |  |  |  |  | Exhaust Heat       |  |  |  |  |                |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | Sup. Fan Heat                         |  |  |  |  | Sup. Fan Heat            |  |  |  |  | Sup. Fan Heat                     |  |  |  |  | Sup. Fan Heat           |  |  |  |  | Sup. Fan Heat               |  |  |  |  | Sup. Fan Heat              |  |  |  |  | Sup. Fan Heat      |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | Ret. Fan Heat                         |  |  |  |  | Ret. Fan Heat            |  |  |  |  | Ret. Fan Heat                     |  |  |  |  | Ret. Fan Heat           |  |  |  |  | Ret. Fan Heat               |  |  |  |  | Ret. Fan Heat              |  |  |  |  | Ret. Fan Heat      |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                |  |  |  |  |
| Duct Heat PkUp                  |  |  |  |  | Duct Heat PkUp                        |  |  |  |  | Duct Heat PkUp           |  |  |  |  | Duct Heat PkUp                    |  |  |  |  | Duct Heat PkUp          |  |  |  |  | Duct Heat PkUp              |  |  |  |  | Duct Heat PkUp             |  |  |  |  | Duct Heat PkUp     |  |  |  |  | Duct Heat PkUp     |  |  |  |  |                |  |  |  |  |
| Reheat at Design                |  |  |  |  | Reheat at Design                      |  |  |  |  | Reheat at Design         |  |  |  |  | Reheat at Design                  |  |  |  |  | Reheat at Design        |  |  |  |  | Reheat at Design            |  |  |  |  | Reheat at Design           |  |  |  |  | Reheat at Design   |  |  |  |  | Reheat at Design   |  |  |  |  |                |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | Grand Total ==>                       |  |  |  |  | Grand Total ==>          |  |  |  |  | Grand Total ==>                   |  |  |  |  | Grand Total ==>         |  |  |  |  | Grand Total ==>             |  |  |  |  | Grand Total ==>            |  |  |  |  | Grand Total ==>    |  |  |  |  | Grand Total ==>    |  |  |  |  |                |  |  |  |  |
| No. People                      |  |  |  |  | No. People                            |  |  |  |  | No. People               |  |  |  |  | No. People                        |  |  |  |  | No. People              |  |  |  |  | No. People                  |  |  |  |  | No. People                 |  |  |  |  | No. People         |  |  |  |  | No. People         |  |  |  |  |                |  |  |  |  |
| 0                               |  |  |  |  | 0                                     |  |  |  |  | 0                        |  |  |  |  | 0                                 |  |  |  |  | 0                       |  |  |  |  | 0                           |  |  |  |  | 0                          |  |  |  |  | 0                  |  |  |  |  | 0                  |  |  |  |  |                |  |  |  |  |
| Lps/m²                          |  |  |  |  | Lps/m²                                |  |  |  |  | Lps/m²                   |  |  |  |  | Lps/m²                            |  |  |  |  | Lps/m²                  |  |  |  |  | Lps/m²                      |  |  |  |  | Lps/m²                     |  |  |  |  | Lps/m²             |  |  |  |  | Lps/m²             |  |  |  |  |                |  |  |  |  |
| 26.94                           |  |  |  |  | 26.94                                 |  |  |  |  | 26.94                    |  |  |  |  | 26.94                             |  |  |  |  | 26.94                   |  |  |  |  | 26.94                       |  |  |  |  | 26.94                      |  |  |  |  | 26.94              |  |  |  |  | 26.94              |  |  |  |  |                |  |  |  |  |
| m²/kW                           |  |  |  |  | m²/kW                                 |  |  |  |  | m²/kW                    |  |  |  |  | m²/kW                             |  |  |  |  | m²/kW                   |  |  |  |  | m²/kW                       |  |  |  |  | m²/kW                      |  |  |  |  | m²/kW              |  |  |  |  | m²/kW              |  |  |  |  |                |  |  |  |  |
| 126.76                          |  |  |  |  | 126.76                                |  |  |  |  | 126.76                   |  |  |  |  | 126.76                            |  |  |  |  | 126.76                  |  |  |  |  | 126.76                      |  |  |  |  | 126.76                     |  |  |  |  | 126.76             |  |  |  |  | 126.76             |  |  |  |  |                |  |  |  |  |
| W/m²                            |  |  |  |  | W/m²                                  |  |  |  |  | W/m²                     |  |  |  |  | W/m²                              |  |  |  |  | W/m²                    |  |  |  |  | W/m²                        |  |  |  |  | W/m²                       |  |  |  |  | W/m²               |  |  |  |  | W/m²               |  |  |  |  |                |  |  |  |  |
| 7.88                            |  |  |  |  | 7.88                                  |  |  |  |  | 7.88                     |  |  |  |  | 7.88                              |  |  |  |  | 7.88                    |  |  |  |  | 7.88                        |  |  |  |  | 7.88                       |  |  |  |  | 7.88               |  |  |  |  | 7.88               |  |  |  |  |                |  |  |  |  |
| -4.07                           |  |  |  |  | -4.07                                 |  |  |  |  | -4.07                    |  |  |  |  | -4.07                             |  |  |  |  | -4.07                   |  |  |  |  | -4.07                       |  |  |  |  | -4.07                      |  |  |  |  | -4.07              |  |  |  |  | -4.07              |  |  |  |  |                |  |  |  |  |
| Capacity                        |  |  |  |  | Capacity                              |  |  |  |  | Capacity                 |  |  |  |  | Capacity                          |  |  |  |  | Capacity                |  |  |  |  | Capacity                    |  |  |  |  | Capacity                   |  |  |  |  | Capacity           |  |  |  |  | Capacity           |  |  |  |  |                |  |  |  |  |
| kW                              |  |  |  |  | kW                                    |  |  |  |  | kW                       |  |  |  |  | kW                                |  |  |  |  | kW                      |  |  |  |  | kW                          |  |  |  |  | kW                         |  |  |  |  | kW                 |  |  |  |  | kW                 |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| Coil Airflow                    |  |  |  |  | Coil Airflow                          |  |  |  |  | Coil Airflow             |  |  |  |  | Coil Airflow                      |  |  |  |  | Coil Airflow            |  |  |  |  | Coil Airflow                |  |  |  |  | Coil Airflow               |  |  |  |  | Coil Airflow       |  |  |  |  | Coil Airflow       |  |  |  |  |                |  |  |  |  |
| L/s                             |  |  |  |  | L/s                                   |  |  |  |  | L/s                      |  |  |  |  | L/s                               |  |  |  |  | L/s                     |  |  |  |  | L/s                         |  |  |  |  | L/s                        |  |  |  |  | L/s                |  |  |  |  | L/s                |  |  |  |  |                |  |  |  |  |
| 1                               |  |  |  |  | 1                                     |  |  |  |  | 1                        |  |  |  |  | 1                                 |  |  |  |  | 1                       |  |  |  |  | 1                           |  |  |  |  | 1                          |  |  |  |  | 1                  |  |  |  |  | 1                  |  |  |  |  |                |  |  |  |  |
| 23.9                            |  |  |  |  | 23.9                                  |  |  |  |  | 23.9                     |  |  |  |  | 23.9                              |  |  |  |  | 23.9                    |  |  |  |  | 23.9                        |  |  |  |  | 23.9                       |  |  |  |  | 23.9               |  |  |  |  | 23.9               |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                     |  |  |  |  | 0.0                         |  |  |  |  | 0.0                        |  |  |  |  | 0.0                |  |  |  |  | 0.0                |  |  |  |  |                |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                   |  |  |  |  | 0.0                      |  |  |  |  | 0                                 |  |  |  |  |                         |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |                    |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |



## Room Checksums

By GOCSA

## CL0221 04 AREA TRABAJO

| COOLING COIL PEAK  |  |  |  |  |                          |  |  |  |  | CLG SPACE PEAK   |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |                  |  |  |  |  | TEMPERATURES     |  |  |  |  |                  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|--------------------------|--|--|--|--|------------------|--|--|--|--|-----------------------|--|--|--|--|--------------------|--|--|--|--|------------------|--|--|--|--|------------------|--|--|--|--|------------------|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15            |  |  |  |  | Mo/Hr: 7 / 19    |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB               |  |  |  |  | Cooling          |  |  |  |  | Heating          |  |  |  |  |                  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADB/WB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 30         |  |  |  |  | OADB: -5              |  |  |  |  | Plenum             |  |  |  |  | 23.5             |  |  |  |  | 23.5             |  |  |  |  |                  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                   |  |  |  |  | Net              |  |  |  |  | Space                 |  |  |  |  | Space Peak         |  |  |  |  | Coil Peak        |  |  |  |  | Percent          |  |  |  |  |                  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                       |  |  |  |  | kW               |  |  |  |  | Sensible              |  |  |  |  | Space Sens         |  |  |  |  | Tot Sens         |  |  |  |  | Of Total         |  |  |  |  |                  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| %                  |  |  |  |  | %                        |  |  |  |  | %                |  |  |  |  | %                     |  |  |  |  | kW                 |  |  |  |  | kW               |  |  |  |  | %                |  |  |  |  |                  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                          |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  | Envelope Loads     |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  | Envelope Loads     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Envelope Loads     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  | Skylite Solar            |  |  |  |  | Skylite Solar    |  |  |  |  | Skylite Solar         |  |  |  |  | Skylite Solar      |  |  |  |  | Skylite Solar    |  |  |  |  | Skylite Solar    |  |  |  |  | Skylite Solar    |  |  |  |  | Skylite Solar      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  | 0.00                     |  |  |  |  | 0.00             |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  | Skylite Cond             |  |  |  |  | Skylite Cond     |  |  |  |  | Skylite Cond          |  |  |  |  | Skylite Cond       |  |  |  |  | Skylite Cond     |  |  |  |  | Skylite Cond     |  |  |  |  | Skylite Cond     |  |  |  |  | Skylite Cond       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  | 0.11                     |  |  |  |  | 0.11             |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  | Roof Cond                |  |  |  |  | Roof Cond        |  |  |  |  | Roof Cond             |  |  |  |  | Roof Cond          |  |  |  |  | Roof Cond        |  |  |  |  | Roof Cond        |  |  |  |  | Roof Cond        |  |  |  |  | Roof Cond          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.58               |  |  |  |  | 0.00                     |  |  |  |  | 0.58             |  |  |  |  | 1.15                  |  |  |  |  | 41                 |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  | Glass Solar              |  |  |  |  | Glass Solar      |  |  |  |  | Glass Solar           |  |  |  |  | Glass Solar        |  |  |  |  | Glass Solar      |  |  |  |  | Glass Solar      |  |  |  |  | Glass Solar      |  |  |  |  | Glass Solar        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.11               |  |  |  |  | 0.00                     |  |  |  |  | 0.11             |  |  |  |  | 0.11                  |  |  |  |  | 4                  |  |  |  |  | -0.29            |  |  |  |  | -0.29            |  |  |  |  | -0.29            |  |  |  |  | -0.29              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  | Wall Cond                |  |  |  |  | Wall Cond        |  |  |  |  | Wall Cond             |  |  |  |  | Wall Cond          |  |  |  |  | Wall Cond        |  |  |  |  | Wall Cond        |  |  |  |  | Wall Cond        |  |  |  |  | Wall Cond          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.05               |  |  |  |  | 0.01                     |  |  |  |  | 0.06             |  |  |  |  | 2                     |  |  |  |  | 2                  |  |  |  |  | -0.23            |  |  |  |  | -0.28            |  |  |  |  | -0.28            |  |  |  |  | -0.28              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  | Partition                |  |  |  |  | Partition        |  |  |  |  | Partition             |  |  |  |  | Partition          |  |  |  |  | Partition        |  |  |  |  | Partition        |  |  |  |  | Partition        |  |  |  |  | Partition          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  | 0.00                     |  |  |  |  | 0.00             |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  | Exposed Floor            |  |  |  |  | Exposed Floor    |  |  |  |  | Exposed Floor         |  |  |  |  | Exposed Floor      |  |  |  |  | Exposed Floor    |  |  |  |  | Exposed Floor    |  |  |  |  | Exposed Floor    |  |  |  |  | Exposed Floor      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  | 0.00                     |  |  |  |  | 0.00             |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  | Infiltration             |  |  |  |  | Infiltration     |  |  |  |  | Infiltration          |  |  |  |  | Infiltration       |  |  |  |  | Infiltration     |  |  |  |  | Infiltration     |  |  |  |  | Infiltration     |  |  |  |  | Infiltration       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  | 0.00                     |  |  |  |  | 0.00             |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  | Sub Total ==>            |  |  |  |  | Sub Total ==>    |  |  |  |  | Sub Total ==>         |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>    |  |  |  |  | Sub Total ==>    |  |  |  |  | Sub Total ==>    |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.74               |  |  |  |  | 0.12                     |  |  |  |  | 0.86             |  |  |  |  | 1.32                  |  |  |  |  | 47                 |  |  |  |  | -0.52            |  |  |  |  | -0.77            |  |  |  |  | 5                |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                          |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  | Internal Loads     |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  | Internal Loads     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Internal Loads     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  | Lights                   |  |  |  |  | Lights           |  |  |  |  | Lights                |  |  |  |  | Lights             |  |  |  |  | Lights           |  |  |  |  | Lights           |  |  |  |  | Lights           |  |  |  |  | Lights             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.17               |  |  |  |  | 0.04                     |  |  |  |  | 0.21             |  |  |  |  | 0.17                  |  |  |  |  | 6                  |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  | People                   |  |  |  |  | People           |  |  |  |  | People                |  |  |  |  | People             |  |  |  |  | People           |  |  |  |  | People           |  |  |  |  | People           |  |  |  |  | People             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.56               |  |  |  |  | 0.56                     |  |  |  |  | 0.56             |  |  |  |  | 0.30                  |  |  |  |  | 11                 |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  | Misc                     |  |  |  |  | Misc             |  |  |  |  | Misc                  |  |  |  |  | Misc               |  |  |  |  | Misc             |  |  |  |  | Misc             |  |  |  |  | Misc             |  |  |  |  | Misc               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.00               |  |  |  |  | 0.00                     |  |  |  |  | 1.00             |  |  |  |  | 1.00                  |  |  |  |  | 35                 |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  | Sub Total ==>            |  |  |  |  | Sub Total ==>    |  |  |  |  | Sub Total ==>         |  |  |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>    |  |  |  |  | Sub Total ==>    |  |  |  |  | Sub Total ==>    |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.73               |  |  |  |  | 0.04                     |  |  |  |  | 1.77             |  |  |  |  | 1.47                  |  |  |  |  | 52                 |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                          |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  | Ceiling Load       |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  | Ceiling Load       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ceiling Load       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.03               |  |  |  |  | -0.03                    |  |  |  |  | 0.00             |  |  |  |  | 0.03                  |  |  |  |  | 1                  |  |  |  |  | -0.04            |  |  |  |  | 0                |  |  |  |  | 0                |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  | Ventilation Load         |  |  |  |  | Ventilation Load |  |  |  |  | Ventilation Load      |  |  |  |  | Ventilation Load   |  |  |  |  | Ventilation Load |  |  |  |  | Ventilation Load |  |  |  |  | Ventilation Load |  |  |  |  | Ventilation Load   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  | 0.00                     |  |  |  |  | 8.61             |  |  |  |  | 0.00                  |  |  |  |  | 0                  |  |  |  |  | 0.00             |  |  |  |  | -10.21           |  |  |  |  | 72               |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  |                          |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  | Adj Air Trans Heat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Adj Air Trans Heat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0                  |  |  |  |  | 0                        |  |  |  |  | 0                |  |  |  |  | 0                     |  |  |  |  | 0                  |  |  |  |  | 0                |  |  |  |  | 0                |  |  |  |  | 0                |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                          |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  | 0.00                     |  |  |  |  | 0.00             |  |  |  |  | 0.00                  |  |  |  |  | 0                  |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  | 0.00             |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  | Ov/Undr Sizing           |  |  |  |  | Ov/Undr Sizing   |  |  |  |  | Ov/Undr Sizing        |  |  |  |  | Ov/Undr Sizing     |  |  |  |  | Ov/Undr Sizing   |  |  |  |  | Ov/Undr Sizing   |  |  |  |  | Ov/Undr Sizing   |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  | Exhaust Heat             |  |  |  |  | Exhaust Heat     |  |  |  |  | Exhaust Heat          |  |  |  |  | Exhaust Heat       |  |  |  |  | Exhaust Heat     |  |  |  |  | Exhaust Heat     |  |  |  |  | Exhaust Heat     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -0.65              |  |  |  |  | -0.65                    |  |  |  |  | -0.65            |  |  |  |  | -0.65                 |  |  |  |  | -6                 |  |  |  |  | 0.40             |  |  |  |  | -3               |  |  |  |  |                  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  |                          |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  | Sup. Fan Heat      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sup. Fan Heat      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.59               |  |  |  |  | 0.59                     |  |  |  |  | 0.59             |  |  |  |  | 5                     |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  |                          |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  | Ret. Fan Heat      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ret. Fan Heat      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.34               |  |  |  |  | 0.34                     |  |  |  |  | 0.34             |  |  |  |  | 3                     |  |  |  |  | 0.00               |  |  |  |  | 0                |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duct Heat PkUp     |  |  |  |  |                          |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  | Duct Heat PkUp     |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  | Duct Heat PkUp     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Duct Heat PkUp     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  | 0.00                     |  |  |  |  | 0.00             |  |  |  |  | 0                     |  |  |  |  | -3.42              |  |  |  |  | 24               |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  |                          |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  | Reheat at Design   |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  | Reheat at Design   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Reheat at Design   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  | 0.00                     |  |  |  |  | 0.00             |  |  |  |  | 0                     |  |  |  |  | -0.18              |  |  |  |  | 1                |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                          |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  | Grand Total ==>    |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  |                  |  |  |  |  | Grand Total ==>    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Grand Total ==>    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.50               |  |  |  |  | -0.18                    |  |  |  |  | 11.52            |  |  |  |  | 2.82                  |  |  |  |  | 100.00             |  |  |  |  | -0.56            |  |  |  |  | -14.18           |  |  |  |  | 100.00           |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent  |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C   |  |  |  |  |
| Main Clg               |  |  |  |  |           |  |  |  |  | Main Htg               |  |  |  |  |          |  |  |  |  | Main Htg     |  |  |  |  |      |  |  |  |  |
| 11.52                  |  |  |  |  | 8.15      |  |  |  |  | 332                    |  |  |  |  | -4.0     |  |  |  |  | 332          |  |  |  |  | 13.0 |  |  |  |  |
| Aux Clg                |  |  |  |  |           |  |  |  |  | Aux Htg                |  |  |  |  |          |  |  |  |  | Aux Htg      |  |  |  |  |      |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  |           |  |  |  |  | Preheat                |  |  |  |  |          |  |  |  |  | Preheat      |  |  |  |  |      |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -6.8     |  |  |  |  | 332          |  |  |  |  | -4.9 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  | Reheat                 |  |  |  |  |          |  |  |  |  | Reheat       |  |  |  |  |      |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  | -3.4     |  |  |  |  | 332          |  |  |  |  | 13.0 |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  | Humidif                |  |  |  |  |          |  |  |  |  | Humidif      |  |  |  |  |      |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  | -7.0     |  |  |  |  | 332          |  |  |  |  | 0.5  |  |  |  |  |
| Total                  |  |  |  |  |           |  |  |  |  | Opt Vent               |  |  |  |  |          |  |  |  |  | Opt Vent     |  |  |  |  |      |  |  |  |  |
| 11.52                  |  |  |  |  |           |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  | Total                  |  |  |  |  |          |  |  |  |  | Total        |  |  |  |  |      |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  | -17.8    |  |  |  |  |              |  |  |  |  |      |  |  |  |  |



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| COOLING COIL PEAK |  |              |  |              |                       |       |  |          |  | CLG SPACE PEAK |  |          |  |              |                       |              |  |          |  | HEATING COIL PEAK |  |          |  |  |         |   |  |  |  | TEMPERATURES                                      |  |                            |  |          |  |  |  |  |  |
|-------------------|--|--------------|--|--------------|-----------------------|-------|--|----------|--|----------------|--|----------|--|--------------|-----------------------|--------------|--|----------|--|-------------------|--|----------|--|--|---------|---|--|--|--|---|--|----------------------------|--|----------|--|--|--|--|--|
| Peaked at Time:   |  |              |  |              | Mo/Hr: 7 / 2          |       |  |          |  | Mo/Hr: 7 / 2   |  |          |  |              | Mo/Hr: Heating Design |              |  |          |  | SADB              |  |          |  |  | Cooling |   |  |  |  | Heating   |  |                            |  |          |  |  |  |  |  |
| Outside Air:      |  |              |  |              | OADBWB/HR: 19 / 9 / 4 |       |  |          |  | OADB: 19       |  |          |  |              | OADB: -5              |              |  |          |  | Plenum            |  |          |  |  | 23.0    |   |  |  |  | 29.7  |  |                            |  |          |  |  |  |  |  |
| Sens. + Lat.      |  | Space        |  | Plenum       |                       | Net   |  | Percent  |  | Space          |  | Percent  |  | Space Peak   |                       | Coil Peak    |  | Percent  |  | Of Total          |  | Tot Sens |  | kW <th colspan="2">kW<th colspan="2">kW<th colspan="2">kW<th colspan="2">kW<th colspan="2">kW</th></th></th></th></th> |         | kW <th colspan="2">kW<th colspan="2">kW<th colspan="2">kW<th colspan="2">kW</th></th></th></th> |  | kW <th colspan="2">kW<th colspan="2">kW<th colspan="2">kW</th></th></th> |  | kW <th colspan="2">kW<th colspan="2">kW</th></th> |  | kW <th colspan="2">kW</th> |  | kW       |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat. |                       | Sens. + Lat. |  | Of Total |  | Of Total          |  | Of Total |  | Of Total   |         | Of Total  |  | Of Total   |  | Of Total  |  | Of Total                   |  | Of Total |  |  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Sens. + Lat. |                       | Total |  | Of Total |  | Sens. + Lat.   |  | Of Total |  | Sens. + Lat  |                       |              |  |          |  |                   |  |          |  |  |         |   |  |  |  |   |  |                            |  |          |  |  |  |  |  |



Room Checksums

By GOCSA

CL0221 07 VESTIBULO PREVIO PASILLO

| COOLING COIL PEAK            |  |                |           |              |          |         |          |          |         | CLG SPACE PEAK         |          |                |             | HEATING COIL PEAK              |         |            |          | TEMPERATURES           |         |                 |       |         |
|------------------------------|--|----------------|-----------|--------------|----------|---------|----------|----------|---------|------------------------|----------|----------------|-------------|--------------------------------|---------|------------|----------|------------------------|---------|-----------------|-------|---------|
| Peaked at Time: Outside Air: |  |                |           |              |          |         |          |          |         | Mo/Hr: 7 / 15 OADB: 36 |          |                |             | Mo/Hr: Heating Design OADB: -5 |         |            |          |                        |         |                 |       |         |
| Sens. + Lat.                 |  | Space          | Plenum    | Net          |          | Percent | Space    |          | Percent | Sensible               |          | Percent        | Space Peak  |                                | Percent | Space Sens |          | SADB                   |         | Cooling         |       | Heating |
| kW                           |  | kW             | kW        | Total        | Of Total | (%)     | Total    | Of Total | (%)     | kW                     | Of Total | (%)            | kW          | Of Total                       | (%)     | kW         | Of Total | Plenum                 | Return  | 22.8            | 21.0  |         |
| Envelope Loads               |  | Envelope Loads |           |              |          |         |          |          |         |                        |          | Envelope Loads |             |                                |         |            |          |                        |         |                 |       |         |
| Skylite Solar                |  | 0.00           | 0.00      | 0.00         | 0        | 0       | 0.00     | 0.00     | 0       | 0.00                   | 0        | 0              | 0.00        | 0.00                           | 0       | 0.00       | 0.00     | 0.00                   | 23.7    | 36.5            | 0.2   | 0.0     |
| Skylite Cond                 |  | 0.00           | 0.00      | 0.00         | 0        | 0       | 0.00     | 0.00     | 0       | 0.00                   | 0        | 0              | 0.00        | 0.00                           | 0       | 0.00       | 0.00     | 0.00                   | 0.4     | 0.4             | 0.0   | 0.0     |
| Roof Cond                    |  | 0.00           | 1.69      | 1.69         | 3        | 0       | 0.00     | 0.00     | 0       | 0.00                   | 0        | 0              | 0.00        | -3.10                          | 4       | 0.00       | 0.00     | 0.00                   | 0.0     | 1.1             | 0.0   | 0.0     |
| Glass Solar                  |  | 0.68           | 0.00      | 0.68         | 1        | 0       | 0.63     | 0.00     | 4       | 0.63                   | 0        | 0              | 0.00        | 0.00                           | 0       | -0.17      | -0.10    | 0.00                   | 0.0     |                 |       |         |
| Glass Cond                   |  | 0.06           | 0.00      | 0.06         | 0        | 0       | 0.07     | 0.00     | 0       | 0.07                   | 0        | 0              | -0.17       | -0.17                          | 0       | -0.07      | -0.63    | 0.00                   | 0.0     |                 |       |         |
| Wall Cond                    |  | 0.02           | 0.01      | 0.03         | 0        | 0       | 0.02     | 0.00     | 0       | 0.02                   | 0        | 0              | -0.07       | -0.10                          | 0       | 0.00       | 0.00     | 0.00                   | 0.0     |                 |       |         |
| Partition                    |  | 0.30           | 0.00      | 0.30         | 0        | 0       | 0.35     | 0.00     | 2       | 0.35                   | 0        | 0              | -0.63       | -0.63                          | 1       | 0.00       | 0.00     | 0.00                   | 0.0     |                 |       |         |
| Exposed Floor                |  | 0.00           | 0.00      | 0.00         | 0        | 0       | 0.00     | 0.00     | 0       | 0.00                   | 0        | 0              | 0.00        | 0.00                           | 0       | 0.00       | 0.00     | 0.00                   | 0.0     |                 |       |         |
| Infiltration                 |  | 0.00           | 0.00      | 0.00         | 0        | 0       | 0.00     | 0.00     | 0       | 0.00                   | 0        | 0              | 0.00        | 0.00                           | 0       | 0.00       | 0.00     | 0.00                   | 0.0     |                 |       |         |
| Sub Total ==>                |  | 1.06           | 1.70      | 2.76         | 4        | 7       | 1.07     | 1.07     | 7       | 1.07                   | 7        | 7              | -0.87       | -4.00                          | 5       | -0.87      | -4.00    | 0.00                   | 0.0     |                 |       |         |
| Internal Loads               |  | Internal Loads |           |              |          |         |          |          |         |                        |          | Internal Loads |             |                                |         |            |          |                        |         |                 |       |         |
| Lights                       |  | 2.73           | 0.68      | 3.41         | 5        | 18      | 2.73     | 2.73     | 18      | 2.73                   | 18       | 18             | 0.00        | 0.00                           | 0       | 0.00       | 0.00     | 0.00                   | 0.0     |                 |       |         |
| People                       |  | 5.05           | 0.00      | 5.05         | 7        | 18      | 2.75     | 2.75     | 18      | 0.00                   | 0        | 0              | 0.00        | 0.00                           | 0       | 0.00       | 0.00     | 0.00                   | 0.0     |                 |       |         |
| Misc                         |  | 0.00           | 0.00      | 0.00         | 0        | 0       | 0.00     | 0.00     | 0       | 0.00                   | 0        | 0              | 0.00        | 0.00                           | 0       | 0.00       | 0.00     | 0.00                   | 0.0     |                 |       |         |
| Sub Total ==>                |  | 7.78           | 0.68      | 8.46         | 13       | 36      | 5.48     | 5.48     | 36      | 5.48                   | 36       | 36             | 0.00        | 0.00                           | 0       | 0.00       | 0.00     | 0.00                   | 0.0     |                 |       |         |
| Ceiling Load                 |  | 0.45           | -0.45     | 0.00         | 0        | 3       | 0.46     | 0.46     | 3       | 0.46                   | 3        | 3              | -0.58       | 0                              | 0       | -0.58      | 0        | 0.00                   | 0.0     |                 |       |         |
| Ventilation Load             |  | 0.00           | 0.00      | 43.40        | 64       | 0       | 0.00     | 0.00     | 0       | 0.00                   | 0        | 0              | 0.00        | -63.65                         | 75      | 0.00       | -63.65   | 0.00                   | 0.0     |                 |       |         |
| Adj Air Trans Heat           |  | 0              | 0.00      | 0            | 0        | 0       | 0        | 0        | 0       | 0                      | 0        | 0              | 0           | 0                              | 0       | 0          | 0        | 0.00                   | 0.0     |                 |       |         |
| Dehumid. Ov Sizing           |  | 8.27           | -4.06     | 3            | 4        | 54      | 8.27     | 8.27     | 54      | 8.27                   | 54       | 54             | 0.00        | 0.00                           | 0       | 0.00       | 0.00     | 0.00                   | 0.0     |                 |       |         |
| OvUndr Sizing                |  |                |           | 8.27         | 12       |         |          |          |         |                        |          |                | 0.00        | 2.47                           | -3      | 0.00       | 2.47     | 6.67                   | 6.67    |                 |       |         |
| Exhaust Heat                 |  |                |           | -4.06        | -6       |         | -4.06    | -4.06    | -6      |                        |          |                | 0.00        | 0.00                           | 0       | 0.00       | 0.00     | 30.57                  | 30.57   |                 |       |         |
| Sup. Fan Heat                |  |                |           | 3.66         | 5        |         | 3.66     | 3.66     | 5       |                        |          |                | 0.00        | 0.00                           | 0       | 0.00       | 0.00     | 0.00                   | 0.0     |                 |       |         |
| Ret. Fan Heat                |  |                |           | 2.14         | 3        |         | 2.14     | 2.14     | 3       |                        |          |                | 0.00        | 0.00                           | 0       | 0.00       | 0.00     | 4.59                   | 4.59    |                 |       |         |
| Duct Heat Pkup               |  |                |           | 0.00         | 0        |         | 0.00     | 0.00     | 0       |                        |          |                | -20.30      | -20.30                         | 24      | -20.30     | -20.30   | 217.92                 | 217.92  |                 |       |         |
| Reheat at Design             |  |                |           | 0.00         | 0        |         | 0.00     | 0.00     | 0       |                        |          |                | 0.09        | 0.09                           | 0       | 0.09       | 0.09     | -354.83                | -354.83 |                 |       |         |
| Grand Total ==>              |  | 17.56          | 0.01      | 67.60        | 100.00   |         | 15.28    | 15.28    | 100.00  | 15.28                  | 100.00   |                | -1.45       | -85.39                         | 100.00  | -1.45      | -85.39   | No. People             | 31      |                 |       |         |
|                              |  |                |           |              |          |         |          |          |         |                        |          |                |             |                                |         |            |          |                        |         | ENGINEERING CKS |       |         |
| Total Capacity               |  | kW             | Sens Cap. | Coil Airflow |          | Enter   | DB/WB/HR |          | Leave   | DB/WB/HR               |          | DB/WB/HR       | Gross Total |                                | Glass   | Areas      |          | Heating Coil Selection |         | Capacity        |       | Lvg     |
| Main Clg                     |  | 67.58          | 54.82     | 2.067        | 36.5     | 21.6    | 11.5     | 13.4     | 12.3    | 9.3                    | 9.3      | 310            | Floor       | 310                            | 0       | 0          | 0        | 2.067                  | 2.067   | -21.7           | 2.067 | 13.4    |
| Aux Clg                      |  | 0.00           | 0.00      | 0.00         | 0.0      | 0.0     | 0.0      | 0.0      | 0.0     | 0.0                    | 0.0      | 705            | Part        | 705                            | 0       | 0          | 0        | 0.0                    | 0.0     | 0.0             | 0.0   | 22.6    |
| Opt Vent                     |  | 0.00           | 0.00      | 0            | 0.0      | 0.0     | 0.0      | 0.0      | 0.0     | 0.0                    | 0.0      | 0              | ExFlr       | 0                              | 0       | 0          | 0        | 2.067                  | 2.067   | -44.7           | 2.067 | -4.9    |
| Total                        |  | 67.58          |           |              |          |         |          |          |         |                        |          | 310            | Roof        | 310                            | 0       | 0          | 0        | 2.067                  | 2.067   | -20.3           | 2.067 | 13.4    |
|                              |  |                |           |              |          |         |          |          |         |                        |          | 13             | Wall        | 13                             | 4       | 32         | 0        | 2.067                  | 2.067   | -43.6           | 2.067 | 0.5     |
|                              |  |                |           |              |          |         |          |          |         |                        |          |                |             |                                |         |            | 0        | 0.0                    | 0.0     | -110.0          | 0.0   | 0.0     |
|                              |  |                |           |              |          |         |          |          |         |                        |          |                |             |                                |         |            |          |                        |         |                 |       |         |



## Room Checksums

By GOC SA

CL0221 08 IT EX 4/25

| COOLING COIL PEAK               |  |                    |  |           |   |                |  |                  |  | CLG SPACE PEAK            |  |                    |  |                  | HEATING COIL PEAK                 |          |  |              |  | TEMPERATURES |  |  |  |  |
|---------------------------------|--|--------------------|--|-----------|---|----------------|--|------------------|--|---------------------------|--|--------------------|--|------------------|-----------------------------------|----------|--|--------------|--|--------------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |                    |  |           | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |                |  |                  |  | Mo/Hr: 7 / 15<br>OADB: 36 |  |                    |  |                  | Mo/Hr: Heating Design<br>OADB: -5 |          |  |              |  |              |  |  |  |  |
| Space Sens. + Lat.              |  | Plenum Sens. + Lat |  | Net Total |   | Space Sensible |  | Percent Of Total |  | Space Peak Space Sens     |  | Coil Peak Tot Sens |  | Percent Of Total |                                   | Cooling  |  | Heating      |  |              |  |  |  |  |
| kW                              |  | kW                 |  | kW        |   | kW             |  | %                |  | kW                        |  | kW                 |  | %                |                                   | L/s      |  | °C           |  |              |  |  |  |  |
| Envelope Loads                  |  |                    |  |           |   |                |  |                  |  | Envelope Loads            |  |                    |  |                  |                                   |          |  |              |  |              |  |  |  |  |
| Skylite Solar                   |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 22.8     |  | 24.0         |  |              |  |  |  |  |
| Skylite Cond                    |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 22.8     |  | 21.0         |  |              |  |  |  |  |
| Roof Cond                       |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 22.8     |  | 21.0         |  |              |  |  |  |  |
| Glass Solar                     |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 22.8     |  | 21.0         |  |              |  |  |  |  |
| Glass Cond                      |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 0.2      |  | 0.0          |  |              |  |  |  |  |
| Wall Cond                       |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 0.4      |  | 0.0          |  |              |  |  |  |  |
| Partition                       |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 1.1      |  | 0.0          |  |              |  |  |  |  |
| Exposed Floor                   |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   |          |  |              |  |              |  |  |  |  |
| Infiltration                    |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   |          |  |              |  |              |  |  |  |  |
| Sub Total ==>                   |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   |          |  |              |  |              |  |  |  |  |
| Internal Loads                  |  |                    |  |           |   |                |  |                  |  | Internal Loads            |  |                    |  |                  |                                   |          |  |              |  |              |  |  |  |  |
| Lights                          |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 0        |  | 0            |  |              |  |  |  |  |
| People                          |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 0        |  | 0            |  |              |  |  |  |  |
| Misc                            |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 0        |  | 0            |  |              |  |  |  |  |
| Sub Total ==>                   |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   |          |  |              |  |              |  |  |  |  |
| Ceiling Load                    |  |                    |  |           |   |                |  |                  |  | Ceiling Load              |  |                    |  |                  |                                   |          |  |              |  |              |  |  |  |  |
| Ventilation Load                |  | -0.02              |  | 0.02      |   | 0.00           |  | 0                |  | -0.02                     |  | -0.02              |  | 0                |                                   | 0.0      |  | 0.0          |  |              |  |  |  |  |
| Adj Air Trans Heat              |  | 0                  |  | 0.00      |   | 0.00           |  | 0                |  | 0                         |  | 0                  |  | 0                |                                   | 0.0      |  | 0.0          |  |              |  |  |  |  |
| Dehumid. Ov Sizing              |  | 0.00               |  | 0         |   | 0.00           |  | 0                |  | 0.02                      |  | 0.02               |  | 0                |                                   | 0.00     |  | 0.00         |  |              |  |  |  |  |
| Ov/Undr Sizing                  |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.02                      |  | 0.02               |  | 0                |                                   | 0.00     |  | 0.00         |  |              |  |  |  |  |
| Exhaust Heat                    |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 0.00     |  | 0.00         |  |              |  |  |  |  |
| Sup. Fan Heat                   |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 0.00     |  | 0.00         |  |              |  |  |  |  |
| Ret. Fan Heat                   |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 0.00     |  | 0.00         |  |              |  |  |  |  |
| Duct Heat Pkup                  |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 0.00     |  | 0.00         |  |              |  |  |  |  |
| Reheat at Design                |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | -0.02              |  | 0                |                                   | 0.00     |  | 0.00         |  |              |  |  |  |  |
| Grand Total ==>                 |  | -0.02              |  | 0.02      |   | 0.00           |  | 100.00           |  | 0.00                      |  | 0.00               |  | 100.00           |                                   | 0        |  | 0            |  |              |  |  |  |  |
| ENGINEERING CKS                 |  |                    |  |           |   |                |  |                  |  | ENGINEERING CKS           |  |                    |  |                  |                                   |          |  |              |  |              |  |  |  |  |
| % OA                            |  | 0.0                |  | 0.0       |   | 0.0            |  | 0                |  | 0.02                      |  | 0.02               |  | 0                |                                   | 0.0      |  | 0.0          |  |              |  |  |  |  |
| Lps/m²                          |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.02                      |  | 0.02               |  | 0                |                                   | 0.00     |  | 0.00         |  |              |  |  |  |  |
| Lps/kW                          |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 0.00     |  | 0.00         |  |              |  |  |  |  |
| m²/kW                           |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | 0.00               |  | 0                |                                   | 0.00     |  | 0.00         |  |              |  |  |  |  |
| W/m²                            |  | 0.00               |  | 0.00      |   | 0.00           |  | 0                |  | 0.00                      |  | -0.02              |  | 0                |                                   | 0.00     |  | 0.00         |  |              |  |  |  |  |
| No. People                      |  | 0                  |  | 0.02      |   | 0.00           |  | 100.00           |  | 0.00                      |  | 0.00               |  | 100.00           |                                   | 0        |  | 0            |  |              |  |  |  |  |
| HEATING COIL SELECTION          |  |                    |  |           |   |                |  |                  |  | HEATING COIL SELECTION    |  |                    |  |                  |                                   |          |  |              |  |              |  |  |  |  |
| Total Capacity                  |  | kW                 |  | Sens Cap. |   | Coil Airflow   |  | Enter DB/WB/HR   |  | Leave DB/WB/HR            |  | Gross Total        |  | Glass            |                                   | Capacity |  | Coil Airflow |  |              |  |  |  |  |
|                                 |  |                    |  |           |   |                |  |                  |  |                           |  |                    |  | m²               |                                   | kW       |  | L/s          |  |              |  |  |  |  |
| Main Clg                        |  | 0.00               |  | 0.00      |   | 0              |  | 0.0              |  | 0.0                       |  | 10                 |  | %                |                                   | 0.0      |  | 0            |  |              |  |  |  |  |
| Aux Clg                         |  | 0.00               |  | 0.00      |   | 0              |  | 0.0              |  | 0.0                       |  | 41                 |  |                  |                                   | 0.0      |  | 0            |  |              |  |  |  |  |
| Opt Vent                        |  | 0.00               |  | 0.00      |   | 0              |  | 0.0              |  | 0.0                       |  | 0                  |  | 0                |                                   | 0.0      |  | 0            |  |              |  |  |  |  |
| Total                           |  | 0.00               |  | 0.00      |   | 0              |  | 0.0              |  | 0.0                       |  | 0                  |  | 0                |                                   | 0.0      |  | 0            |  |              |  |  |  |  |
|                                 |  |                    |  |           |   |                |  |                  |  |                           |  | Floor Part         |  | Main Htg         |                                   | 0.0      |  | 22.5         |  |              |  |  |  |  |
|                                 |  |                    |  |           |   |                |  |                  |  |                           |  | ExFlr Roof Wall    |  | Aux Htg          |                                   | 0.0      |  | 0.0          |  |              |  |  |  |  |
|                                 |  |                    |  |           |   |                |  |                  |  |                           |  |                    |  | Preheat          |                                   | 0.0      |  | 21.0         |  |              |  |  |  |  |
|                                 |  |                    |  |           |   |                |  |                  |  |                           |  |                    |  | Reheat           |                                   | 0.0      |  | 22.5         |  |              |  |  |  |  |
|                                 |  |                    |  |           |   |                |  |                  |  |                           |  |                    |  | Humidif          |                                   | 0.0      |  | 8.1          |  |              |  |  |  |  |
|                                 |  |                    |  |           |   |                |  |                  |  |                           |  |                    |  | Opt Vent         |                                   | 0.0      |  | 0.0          |  |              |  |  |  |  |
|                                 |  |                    |  |           |   |                |  |                  |  |                           |  |                    |  | Total            |                                   | 0.0      |  | 0.0          |  |              |  |  |  |  |



Room Checksums

By GOCSA

CL0221 09 VESTIBULO ASC LIMPIO

| COOLING COIL PEAK            |        |           |                  | CLG SPACE PEAK         |                  |            |                  | HEATING COIL PEAK              |                    |                  |  |
|------------------------------|--------|-----------|------------------|------------------------|------------------|------------|------------------|--------------------------------|--------------------|------------------|--|
| Peaked at Time: Outside Air: |        |           |                  | Mo/Hr: 7 / 15 OADB: 25 |                  |            |                  | Mo/Hr: Heating Design OADB: -5 |                    |                  |  |
| Sens. + Lat.                 | Plenum | Net Total | Percent Of Total | Space Sensible         | Percent Of Total | Space Peak | Percent Of Total | Space Sens                     | Coil Peak Tot Sens | Percent Of Total |  |
| kW                           | kW     | kW        | (%)              | kW                     | (%)              | kW         | (%)              | kW                             | kW                 | (%)              |  |
| Envelope Loads               |        |           |                  |                        |                  |            |                  |                                |                    |                  |  |
| Skylite Solar                | 0.00   | 0.00      | 0                | 0.00                   | 0                | 0.00       | 0                | 0.00                           | 0.00               | 0                |  |
| Skylite Cond                 | 0.00   | 0.00      | 0                | 0.00                   | 0                | 0.00       | 0                | 0.00                           | 0.00               | 0                |  |
| Roof Cond                    | 0.00   | 0.07      | 3                | 0.00                   | 0                | 0.00       | 0                | 0.00                           | -0.12              | 5                |  |
| Glass Solar                  | 0.00   | 0.00      | 0                | 0.00                   | 0                | 0.00       | 0                | 0.00                           | 0.00               | 0                |  |
| Glass Cond                   | 0.00   | 0.00      | 0                | 0.00                   | 0                | 0.00       | 0                | 0.00                           | 0.00               | 0                |  |
| Wall Cond                    | 0.00   | 0.00      | 0                | 0.00                   | 0                | 0.00       | 0                | 0.00                           | 0.00               | 0                |  |
| Partition                    | 0.10   | 0.10      | 5                | 0.16                   | 0                | 0.16       | 0                | -0.21                          | -0.21              | 9                |  |
| Exposed Floor                | 0.00   | 0.00      | 0                | 0.00                   | 0                | 0.00       | 0                | 0.00                           | 0.00               | 0                |  |
| Infiltration                 | 0.00   | 0.00      | 0                | 0.00                   | 0                | 0.00       | 0                | 0.00                           | 0.00               | 0                |  |
| Sub Total ==>                | 0.10   | 0.07      | 8                | 0.16                   | 0                | 0.16       | 0                | -0.21                          | -0.33              | 13               |  |
| Internal Loads               |        |           |                  |                        |                  |            |                  |                                |                    |                  |  |
| Lights                       | 0.07   | 0.09      | 4                | 0.07                   | 0                | 0.07       | 0                | 0.00                           | 0.00               | 0                |  |
| People                       | 0.20   | 0.20      | 9                | 0.11                   | 0                | 0.11       | 0                | 0.00                           | 0.00               | 0                |  |
| Misc                         | 0.00   | 0.00      | 0                | 0.00                   | 0                | 0.00       | 0                | 0.00                           | 0.00               | 0                |  |
| Sub Total ==>                | 0.27   | 0.02      | 14               | 0.18                   | 0                | 0.18       | 0                | 0.00                           | 0.00               | 0                |  |
| Ceiling Load                 |        |           |                  |                        |                  |            |                  |                                |                    |                  |  |
| Ventilation Load             | 0.02   | -0.02     | 0                | 0.02                   | 0                | 0.02       | 0                | -0.02                          | 0                  | 0                |  |
| Adj Air Trans Heat           | 0.00   | 0.00      | 67               | 0.00                   | 0                | 0.00       | 0                | 0.00                           | -1.68              | 68               |  |
| Dehumid. Ov Sizing           | 0      | 0         | 0                | 0                      | 0                | 0          | 0                | 0                              | 0                  | 0                |  |
| OvUndr Sizing                | 0.05   | 0         | 6                | 0.05                   | 0                | 0.05       | 0                | 0.00                           | 0.00               | 0                |  |
| Exhaust Heat                 | -0.11  | 0.05      | 2                | -0.11                  | 0                | 0.00       | 0                | 0.07                           | 0.00               | 0                |  |
| Sup. Fan Heat                | 0.10   | -0.11     | -5               | 0.10                   | 0                | 0.00       | 0                | 0.00                           | 0.00               | -3               |  |
| Ret. Fan Heat                | 0.06   | 0.10      | 5                | 0.06                   | 0                | 0.00       | 0                | 0.00                           | 0.00               | 0                |  |
| Duct Heat PkUp               | 0.00   | 0.06      | 3                | 0.00                   | 0                | 0.00       | 0                | 0.00                           | 0.00               | 0                |  |
| Reheat at Design             | 0.00   | 0.00      | 0                | 0.00                   | 0                | 0.00       | 0                | -0.56                          | -0.56              | 23               |  |
| Grand Total ==>              | 0.44   | 0.02      | 100.00           | 0.41                   | 100.00           | 0.41       | 100.00           | -0.23                          | 0.03               | -1               |  |
|                              |        |           |                  | Grand Total ==>        |                  |            |                  | -2.47                          |                    |                  |  |
|                              |        |           |                  |                        |                  |            |                  | 100.00                         |                    |                  |  |

| TEMPERATURES |      |         |      |
|--------------|------|---------|------|
| SADB         | 15.6 | Cooling | 25.7 |
| Plenum       | 22.8 | Heating | 21.0 |
| Return       | 23.7 |         | 21.0 |
| Ret/OA       | 36.5 |         | -4.9 |
| Fn MtrTD     | 0.2  |         | 0.0  |
| Fn BidTD     | 0.4  |         | 0.0  |
| Fn Frict     | 1.1  |         | 0.0  |

| AIRFLOWS   |    |         |    |
|------------|----|---------|----|
| Vent       | 55 | Cooling | 55 |
| Infil      | 0  | Heating | 55 |
| Supply     | 55 |         | 0  |
| MinStop/Rh | 55 |         | 55 |
| Return     | 55 |         | 55 |
| Exhaust    | 55 |         | 55 |
| Rm Exh     | 0  |         | 0  |
| Auxil      | 0  |         | 0  |

| ENGINEERING CKS |        |         |         |
|-----------------|--------|---------|---------|
| % OA            | 100.0  | Cooling | 100.0   |
| Lps/m²          | 4.50   | Heating | 100.0   |
| Lps/kW          | 26.05  |         | 4.50    |
| m²/kW           | 5.79   |         |         |
| W/m²            | 172.63 |         | -257.44 |
| No. People      | 1      |         |         |

| COOLING COIL SELECTION |           |              |       |           |           |
|------------------------|-----------|--------------|-------|-----------|-----------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | DB/WB/HR  | Leave     |
| kW                     | kW        | L/s          | °C    | °C g/kg   | °C g/kg   |
| Main Clg               | 2.09      | 55           | 36.5  | 21.6 11.5 | 13.1 10.3 |
| Aux Clg                | 0.00      | 0            | 0.0   | 0.0 0.0   | 0.0 0.0   |
| Opt Vent               | 0.00      | 0            | 0.0   | 0.0 0.0   | 0.0 0.0   |
| Total                  | 2.09      |              |       |           |           |

| AREAS       |          |     |
|-------------|----------|-----|
| Gross Total | Glass m² | (%) |
| Floor       | 12       |     |
| Part        | 45       |     |
| ExFlr       | 0        |     |
| Roof        | 12       | 0   |
| Wall        | 0        | 0   |

| HEATING COIL SELECTION |              |     |      |      |
|------------------------|--------------|-----|------|------|
| Capacity               | Coil Airflow | Ent | Lvg  | °C   |
| kW                     | L/s          | °C  | °C   |      |
| Main Htg               | -0.8         | 55  | 13.1 | 25.7 |
| Aux Htg                | 0.0          | 0   | 0.0  | 0.0  |
| Preheat                | -1.2         | 55  | -4.9 | 14.0 |
| Reheat                 | -0.6         | 55  | 13.1 | 22.0 |
| Humidif                | -1.2         | 55  | 0.5  | 8.1  |
| Opt Vent               | 0.0          | 0   | 0.0  | 0.0  |
| Total                  | -3.1         |     |      |      |



Room Checksums

By GOCSA

CL0221 10 RESIDUOS EX 4/50

| COOLING COIL PEAK            |  |       |        | CLG SPACE PEAK                           |                  |                |                  | HEATING COIL PEAK                 |           |                  |  | TEMPERATURES   |  |            |         |
|------------------------------|--|-------|--------|--|------------------|----------------|------------------|-----------------------------------|-----------|------------------|--|--|--|------------|---------|
| Peaked at Time: Outside Air: |  |       |        | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |                  |                |                  | Mo/Hr: Heating Design<br>OADB: -5 |           |                  |  | SADB<br>Plenum<br>Return<br>Ret/OA<br>Fn MtrTD<br>Fn BldTD<br>Fn Frict |  |            |         |
| Sens. + Lat.                 |  | Space | Plenum | Net Total                                | Percent Of Total | Space Sensible | Percent Of Total | Space Peak                        | Coil Peak | Percent Of Total |  |  |  | Cooling    | Heating |
| kW                           |  | kW    | kW     | kW                                       | (%)              | kW             | (%)              | kW                                | kW        | (%)              |  |  |  |            |         |
| Envelope Loads               |  |       |        |  |                  |                |                  |                                   |           |                  |  |  |  |            |         |
| Skylite Solar                |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  | 14.6       | 29.7    |
| Skylite Cond                 |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  | 22.8       | 21.0    |
| Roof Cond                    |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  | 23.7       | 21.0    |
| Glass Solar                  |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  | 23.7       | 21.0    |
| Glass Cond                   |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  | 0.2        | 0.0     |
| Wall Cond                    |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  | 0.4        | 0.0     |
| Partition                    |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  | 1.1        | 0.0     |
| Exposed Floor                |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  |            |         |
| Infiltration                 |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  |            |         |
| Sub Total/ ==>               |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  |            |         |
| Internal Loads               |  |       |        |  |                  |                |                  |                                   |           |                  |  |  |  |            |         |
| Lights                       |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  |            |         |
| People                       |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  |            |         |
| Misc                         |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  |            |         |
| Sub Total/ ==>               |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  |            |         |
| Ceiling Load                 |  |       |        |  |                  |                |                  |                                   |           |                  |  |  |  |            |         |
| Ventilation Load             |  | 0.04  | -0.04  | 0.00                                     | 0                | 0.04           | 0                | -0.05                             | 0         | 0                |  |  |  |            |         |
| Adj Air Trans Heat           |  | 0     | 0.00   | 0.00                                     | 0                | 0              | 0                | 0                                 | 0         | 0                |  |  |  |            |         |
| Dehumid. Ov Sizing           |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  |            |         |
| Ov/Undr Sizing               |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  |            |         |
| Exhaust Heat                 |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | 0.00                              | 0.00      | 0                |  |  |  |            |         |
| Sup. Fan Heat                |  | 0.01  | 0.01   | 0.01                                     | 0                | 0.01           | 0                | 0.00                              | 0.00      | 0                |  |  |  |            |         |
| Ret. Fan Heat                |  | 0.01  | 0.01   | 0.01                                     | 0                | 0.01           | 0                | 0.00                              | 0.00      | 0                |  |  |  |            |         |
| Duct Heat Pkup               |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | -0.10                             | -0.10     | 0                |  |  |  |            |         |
| Reheat at Design             |  | 0.00  | 0.00   | 0.00                                     | 0                | 0.00           | 0                | -0.05                             | -0.05     | 0                |  |  |  |            |         |
| Grand Total/ ==>             |  | 0.04  | -0.03  | 0.02                                     | 100.00           | 0.04           | 100.00           | -0.05                             | -0.15     | 100.00           |  |  |  | No. People | 0       |
| ENGINEERING CKS              |  |       |        |  |                  |                |                  |                                   |           |                  |  |  |  |            |         |
| % OA                         |  |       |        |  |                  |                |                  | 0.0                               |           |                  |  | Cooling  |  | Heating    |         |
|                              |  |       |        |  |                  |                |                  |                                   |           |                  |  | 0.0  |  | 0.0        |         |
| Lps/m²                       |  |       |        |  |                  |                |                  | 0.21                              |           |                  |  | 0.21   |  | 0.21       |         |
| Lps/kW                       |  |       |        |  |                  |                |                  | 356.02                            |           |                  |  | 356.02   |  |            |         |
| m²/kW                        |  |       |        |  |                  |                |                  | 1,674.94                          |           |                  |  | 1,674.94   |  |            |         |
| W/m²                         |  |       |        |  |                  |                |                  | 0.60                              |           |                  |  | 0.60   |  | -4.07      |         |
| HEATING COIL SELECTION       |  |       |        |  |                  |                |                  |                                   |           |                  |  |  |  |            |         |
| Capacity                     |  | kW    |        | L/s                                      |                  | °C             |                  | °C                                |           | °C               |  | °C   |  | °C         |         |
| Main Htg                     |  | -0.1  |        | 5  |                  | 13.0           |                  | 29.7                              |           | 5                |  | 13.0   |  | 29.7       |         |
| Aux Htg                      |  | 0.0   |        | 0  |                  | 0.0            |                  | 0.0                               |           | 0                |  | 0.0  |  | 0.0        |         |
| Preheat                      |  | 0.0   |        | 0  |                  | 0.0            |                  | 0.0                               |           | 0                |  | 0.0  |  | 0.0        |         |
| Reheat                       |  | -0.1  |        | 5  |                  | 13.0           |                  | 22.0                              |           | 5                |  | 13.0   |  | 22.0       |         |
| Humidif                      |  | 0.0   |        | 0  |                  | 0.0            |                  | 0.0                               |           | 0                |  | 0.0  |  | 0.0        |         |
| Opt Vent                     |  | 0.0   |        | 0  |                  | 0.0            |                  | 0.0                               |           | 0                |  | 0.0  |  | 0.0        |         |
| Total/                       |  | -0.1  |        |  |                  |                |                  |                                   |           |                  |  |  |  |            |         |



CL0221 11 LIMPIEZA MATERIAL

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK                   |          |          |          | HEATING COIL PEAK              |           |          |  |
|------------------------------|--------------|--------------|-------|----------------------------------|----------|----------|----------|--------------------------------|-----------|----------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |          |          |          | Mo/Hr: Heating Design OADB: -5 |           |          |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                            | Percent  | Percent  | Percent  | Space Peak                     | Coil Peak | Percent  |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible                         | Of Total | Of Total | Of Total | Space Sens                     | Tot Sens  | Of Total |  |
| kW                           | kW           | kW           | kW    | kW                               | (%)      | (%)      | (%)      | kW                             | kW        | (%)      |  |
| Envelope Loads               |              |              |       |                                  |          |          |          |                                |           |          |  |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Roof Cond                    | 0.00         | 0.15         | 0.15  | 0.00                             | 4        | 0        | 0        | 0.00                           | -0.28     | 7        |  |
| Glass Solar                  | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Cond                   | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Wall Cond                    | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Partition                    | 0.04         | 0.04         | 0.04  | 0.06                             | 1        | 0        | 0        | -0.08                          | -0.08     | 2        |  |
| Exposed Floor                | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 0.04         | 0.15         | 0.19  | 0.06                             | 5        | 0        | 0        | -0.08                          | -0.36     | 9        |  |
| Internal Loads               |              |              |       |                                  |          |          |          |                                |           |          |  |
| Lights                       | 0.24         | 0.06         | 0.30  | 0.24                             | 8        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| People                       | 0.26         | 0.00         | 0.26  | 0.15                             | 7        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Misc                         | 0.35         | 0.00         | 0.35  | 0.35                             | 9        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 0.85         | 0.06         | 0.91  | 0.74                             | 24       | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Ceiling Load                 |              |              |       |                                  |          |          |          |                                |           |          |  |
| Ventilation Load             | 0.04         | -0.04        | 0.00  | 0.05                             | 0        | 0        | 0        | -0.05                          | 0         | 0        |  |
| Adj Air Trans Heat           | 0.00         | 0.00         | 2.59  | 0.00                             | 69       | 0        | 0        | 0.00                           | -3.06     | 73       |  |
| Dehumid. Ov Sizing           | 0            | 0            | 0     | 0                                | 0        | 0        | 0        | 0                              | 0         | 0        |  |
| OvUndr Sizing                | 0.00         | -0.19        | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Exhaust Heat                 |              |              | -0.19 |                                  | -5       |          |          | 0.12                           | 0.12      | -3       |  |
| Sup. Fan Heat                |              |              | 0.18  |                                  | 5        |          |          | 0.00                           | 0.00      | 0        |  |
| Ret. Fan Heat                |              |              | 0.10  |                                  | 3        |          |          | 0.00                           | 0.00      | 0        |  |
| Duct Heat Pkup               |              |              | 0.00  |                                  | 0        |          |          | -1.02                          | -1.02     | 24       |  |
| Reheat at Design             |              |              | 0.00  |                                  | 0        |          |          | 0.11                           | 0.11      | -3       |  |
| Grand Total ==>              | 0.93         | 0.08         | 3.78  | 0.85                             | 100.00   | 0        | 0        | -0.13                          | -4.21     | 100.00   |  |

| TEMPERATURES |      |         |      |
|--------------|------|---------|------|
| SADB         | 14.6 | Cooling | 23.1 |
| Plenum       | 22.8 | Heating | 21.0 |
| Return       | 23.7 |         | 21.0 |
| Ret/OA       | 36.5 |         | -4.9 |
| Fn MtrTD     | 0.2  |         | 0.0  |
| Fn BidTD     | 0.4  |         | 0.0  |
| Fn Frict     | 1.1  |         | 0.0  |

| AIRFLOWS   |    |         |    |
|------------|----|---------|----|
| Vent       | 99 | Cooling | 99 |
| Infil      | 0  | Heating | 99 |
| Supply     | 99 |         | 0  |
| MinStop/Rh | 99 |         | 99 |
| Return     | 99 |         | 99 |
| Exhaust    | 99 |         | 99 |
| Rm Exh     | 0  |         | 0  |
| Auxil      | 0  |         | 0  |

| ENGINEERING CKS |        |         |         |
|-----------------|--------|---------|---------|
| % OA            | 100.0  | Cooling | 100.0   |
| Lps/m²          | 3.58   | Heating | 100.0   |
| Lps/kW          | 26.25  |         | 3.58    |
| m²/kW           | 7.33   |         |         |
| W/m²            | 136.35 |         | -190.39 |
| No. People      | 2      |         |         |

| COOLING COIL SELECTION |           |              |                |
|------------------------|-----------|--------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR |
| kW                     | kW        | L/s          | °C °C g/kg     |
| Main Clg               | 3.78      | 99           | 36.5 21.6 11.5 |
| Aux Clg                | 0.00      | 0            | 0.0 0.0 0.0    |
| Opt Vent               | 0.00      | 0            | 0.0 0.0 0.0    |
| Total                  | 3.78      |              |                |

| HEATING COIL SELECTION |              |     |           |
|------------------------|--------------|-----|-----------|
| Capacity               | Coil Airflow | Ent | Lvg       |
| kW                     | L/s          | °C  | °C        |
| Main Htg               | -1.2         | 99  | 13.0 23.1 |
| Aux Htg                | 0.0          | 0   | 0.0 0.0   |
| Preheat                | -2.0         | 99  | -4.9 13.0 |
| Reheat                 | -1.0         | 99  | 13.0 22.0 |
| Humidif                | -2.1         | 99  | 0.5 8.1   |
| Opt Vent               | 0.0          | 0   | 0.0 0.0   |
| Total                  | -5.3         |     |           |

| AREAS       |    | Glass |
|-------------|----|-------|
| Gross Total | m² | (%)   |
| Floor       | 28 |       |
| Part        | 70 |       |
| ExFlr       | 0  |       |
| Roof        | 28 | 0     |
| Wall        | 0  | 0     |



Room Checksums

By GOCSA

CL0221 12 VESTIBULO ASCSUCIO EX 4/50

| COOLING COIL PEAK  |  |       |        |       |                         |          |          |                    |  | CLG SPACE PEAK |       |           |         |          | HEATING COIL PEAK     |         |         |  |  | TEMPERATURES |  |  |  |  |
|--------------------|--|-------|--------|-------|-------------------------|----------|----------|--------------------|--|----------------|-------|-----------|---------|----------|-----------------------|---------|---------|--|--|--------------|--|--|--|--|
| Peaked at Time:    |  |       |        |       | Mo/Hr: 7 / 15           |          |          |                    |  | Mo/Hr: 7 / 2   |       |           |         |          | Mo/Hr: Heating Design |         |         |  |  |              |  |  |  |  |
| Outside Air:       |  |       |        |       | OADBWB/HR: 36 / 22 / 11 |          |          |                    |  | OADB: 19       |       |           |         |          | OADB: -5              |         |         |  |  |              |  |  |  |  |
| Sens. + Lat.       |  | Space | Plenum | Net   | Percent                 | Space    | Percent  | Envelope Loads     |  | Space Sens     |       | Coil Peak | Percent | SADB     |                       | Cooling | Heating |  |  |              |  |  |  |  |
| kW                 |  | kW    | kW     | Total | Of Total                | Sensible | Of Total | (%)                |  | kW             |       | kW        | (%)     | Return   |                       |         |         |  |  |              |  |  |  |  |
| Envelope Loads     |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Skylite Solar      |  | 0.00           | 0.00  | 0.00      | 0       | Fn MtrTD |                       | 0.2     | 0.0     |  |  |              |  |  |  |  |
| Skylite Solar      |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Skylite Cond       |  | 0.00           | 0.00  | 0.00      | 0       | Fn BidTD |                       | 0.4     | 0.0     |  |  |              |  |  |  |  |
| Skylite Cond       |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Roof Cond          |  | 0.00           | 0.00  | 0.00      | 0       | Fn Frict |                       | 1.1     | 0.0     |  |  |              |  |  |  |  |
| Roof Cond          |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Glass Solar        |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Glass Solar        |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Glass Cond         |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Glass Cond         |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Wall Cond          |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Wall Cond          |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Partition          |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Partition          |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Exposed Floor      |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Exposed Floor      |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Infiltration       |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Infiltration       |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Sub Total ==>      |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Sub Total ==>      |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Internal Loads     |  |                |       | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Internal Loads     |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Lights             |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Lights             |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | People             |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| People             |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Misc               |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Misc               |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Sub Total ==>      |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Sub Total ==>      |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Ceiling Load       |  | 0.02           | 0.02  | 0         | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Ceiling Load       |  | 0.02  | -0.02  | 0.00  | 0                       | 0.02     | 0        | Ventilation Load   |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Ventilation Load   |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Adj Air Trans Heat |  | 0              | 0     | 0         | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Adj Air Trans Heat |  | 0     | 0.00   | 0     | 0                       | 0        | 0        | Ov/Undr Sizing     |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Dehumid. Ov Sizing |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Exhaust Heat       |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Ov/Undr Sizing     |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | OA Preheat Diff.   |  | 0.00           | 0.00  | 0.00      | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Exhaust Heat       |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | RA Preheat Diff.   |  | 0.00           | 0.00  | -0.05     | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Sup. Fan Heat      |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Additional Reheat  |  | 0.00           | 0.00  | -0.05     | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Ret. Fan Heat      |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | System Plenum Heat |  | 0.00           | 0.00  | -0.03     | 0       |          |                       |         |         |  |  |              |  |  |  |  |
| Duct Heat Pkup     |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | Grand Total ==>    |  | -0.02          | 0.02  | -0.08     | 100.00  |          |                       |         |         |  |  |              |  |  |  |  |
| Reheat at Design   |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
| Grand Total ==>    |  | 0.02  | -0.02  | 0.00  | 100.00                  | 0.02     | 100.00   |                    |  | -0.02          | -0.02 | -0.08     | 100.00  |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |
|                    |  |       |        |       |                         |          |          |                    |  |                |       |           |         |          |                       |         |         |  |  |              |  |  |  |  |



Room Checksums

By GOCSA

CL0222 01 ALMACEN EQUIPOS

| COOLING COIL PEAK            |  |  |  | CLG SPACE PEAK                        |  |  |  | HEATING COIL PEAK              |  |  |  | TEMPERATURES   |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|------------------------------|--|--|--|---------------------------------------|--|--|--|--------------------------------|--|--|--|--|--|--|--|--------------------|--|--|--|-----------------------|--|--|--|----------------------|--|--|--|--------|--|--|--|
| Peaked at Time: Outside Air: |  |  |  | Mo/Hr: 7 / 15 OADBWB/HR: 36 / 22 / 11 |  |  |  | Mo/Hr: Heating Design OADB: -5 |  |  |  | SADB Cooling Heating 22.1 22.1 21.3 21.3 23.4 23.4 36.5 -4.9 0.2 0.0 0.4 1.1 0.0 |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
| Sens. + Lat. kW              |  |  |  | Plenum kW                             |  |  |  | Net Total kW                   |  |  |  | Percent Of Total (%)   |  |  |  | Space Peak kW      |  |  |  | Coil Peak Tot Sens kW |  |  |  | Percent Of Total (%) |  |  |  |        |  |  |  |
| Envelope Loads               |  |  |  | 0.00                                  |  |  |  | 0.00                           |  |  |  | 0  |  |  |  | Envelope Loads     |  |  |  | 0.00                  |  |  |  | 0                    |  |  |  |        |  |  |  |
| Skylite Solar                |  |  |  | 0.00                                  |  |  |  | 0.00                           |  |  |  | 0  |  |  |  | Skylite Solar      |  |  |  | 0.00                  |  |  |  | 0                    |  |  |  |        |  |  |  |
| Skylite Cond                 |  |  |  | 0.00                                  |  |  |  | 0.00                           |  |  |  | 0  |  |  |  | Skylite Cond       |  |  |  | 0.00                  |  |  |  | 0                    |  |  |  |        |  |  |  |
| Roof Cond                    |  |  |  | 0.00                                  |  |  |  | 0.29                           |  |  |  | 0.29   |  |  |  | 1                  |  |  |  | Roof Cond             |  |  |  | -0.52                |  |  |  | 2      |  |  |  |
| Glass Solar                  |  |  |  | 0.00                                  |  |  |  | 0.00                           |  |  |  | 0.00   |  |  |  | 0                  |  |  |  | Glass Solar           |  |  |  | 0.00                 |  |  |  | 0      |  |  |  |
| Glass Cond                   |  |  |  | 0.00                                  |  |  |  | 0.00                           |  |  |  | 0.00   |  |  |  | 0                  |  |  |  | Glass Cond            |  |  |  | 0.00                 |  |  |  | 0      |  |  |  |
| Wall Cond                    |  |  |  | 0.00                                  |  |  |  | 0.00                           |  |  |  | 0.00   |  |  |  | 0                  |  |  |  | Wall Cond             |  |  |  | 0.00                 |  |  |  | 0      |  |  |  |
| Partition                    |  |  |  | 0.00                                  |  |  |  | 0.00                           |  |  |  | 0.00   |  |  |  | 0                  |  |  |  | Partition             |  |  |  | 0.00                 |  |  |  | 0      |  |  |  |
| Exposed Floor                |  |  |  | 0.00                                  |  |  |  | 0.00                           |  |  |  | 0.00   |  |  |  | 0                  |  |  |  | Exposed Floor         |  |  |  | 0.00                 |  |  |  | 0      |  |  |  |
| Infiltration                 |  |  |  | 0.00                                  |  |  |  | 0.00                           |  |  |  | 0.00   |  |  |  | 0                  |  |  |  | Infiltration          |  |  |  | 0.00                 |  |  |  | 0      |  |  |  |
| Sub Total ==>                |  |  |  | 0.00                                  |  |  |  | 0.29                           |  |  |  | 1  |  |  |  | Sub Total ==>      |  |  |  | 0.00                  |  |  |  | -0.52                |  |  |  | 2      |  |  |  |
| Internal Loads               |  |  |  | 0.41                                  |  |  |  | 0.51                           |  |  |  | 2  |  |  |  | Internal Loads     |  |  |  | 0.00                  |  |  |  | 0                    |  |  |  |        |  |  |  |
| Lights                       |  |  |  | 0.84                                  |  |  |  | 0.84                           |  |  |  | 4  |  |  |  | Lights             |  |  |  | 0.00                  |  |  |  | 0                    |  |  |  |        |  |  |  |
| People                       |  |  |  | 0.00                                  |  |  |  | 0.00                           |  |  |  | 0  |  |  |  | People             |  |  |  | 0.00                  |  |  |  | 0                    |  |  |  |        |  |  |  |
| Misc                         |  |  |  | 1.25                                  |  |  |  | 1.35                           |  |  |  | 6  |  |  |  | Misc               |  |  |  | 0.00                  |  |  |  | 0                    |  |  |  |        |  |  |  |
| Sub Total ==>                |  |  |  | 0.05                                  |  |  |  | -0.05                          |  |  |  | 0  |  |  |  | Sub Total ==>      |  |  |  | 0.00                  |  |  |  | 0                    |  |  |  |        |  |  |  |
| Ceiling Load                 |  |  |  | 0.00                                  |  |  |  | 15.16                          |  |  |  | 68   |  |  |  | Ceiling Load       |  |  |  | -0.06                 |  |  |  | 0                    |  |  |  |        |  |  |  |
| Ventilation Load             |  |  |  | 0                                     |  |  |  | 0                              |  |  |  | 0  |  |  |  | Ventilation Load   |  |  |  | 0.00                  |  |  |  | -17.88               |  |  |  | 79     |  |  |  |
| Adj Air Trans Heat           |  |  |  | 0.00                                  |  |  |  | 5                              |  |  |  | 22   |  |  |  | Adj Air Trans Heat |  |  |  | 0                     |  |  |  | 0                    |  |  |  |        |  |  |  |
| Dehumid. Ov Sizing           |  |  |  | 0.00                                  |  |  |  | 0.00                           |  |  |  | 0  |  |  |  | Ov/Undr Sizing     |  |  |  | 0.00                  |  |  |  | 0                    |  |  |  |        |  |  |  |
| Exhaust Heat                 |  |  |  | -0.93                                 |  |  |  | -0.93                          |  |  |  | -4   |  |  |  | Exhaust Heat       |  |  |  | 0.46                  |  |  |  | -2                   |  |  |  |        |  |  |  |
| Sup. Fan Heat                |  |  |  | 0.60                                  |  |  |  | 1.03                           |  |  |  | 5  |  |  |  | OA Preheat Diff.   |  |  |  | 0.00                  |  |  |  | 0                    |  |  |  |        |  |  |  |
| Ret. Fan Heat                |  |  |  | 0.00                                  |  |  |  | 0.60                           |  |  |  | 3  |  |  |  | RA Preheat Diff.   |  |  |  | 0.00                  |  |  |  | 0                    |  |  |  |        |  |  |  |
| Duct Heat Pkpu               |  |  |  | 0.00                                  |  |  |  | 0.00                           |  |  |  | 0  |  |  |  | Additional Reheat  |  |  |  | -4.81                 |  |  |  | 21                   |  |  |  |        |  |  |  |
| Reheat at Design             |  |  |  | 0.00                                  |  |  |  | 0.00                           |  |  |  | 0  |  |  |  | System Plenum Heat |  |  |  | 0.00                  |  |  |  | 0                    |  |  |  |        |  |  |  |
| Grand Total ==>              |  |  |  | 1.30                                  |  |  |  | 0.01                           |  |  |  | 22.43  |  |  |  | 100.00             |  |  |  | -0.06                 |  |  |  | -22.75               |  |  |  | 100.00 |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |  |  |  |  |                    |  |  |  |                       |  |  |  |                      |  |  |  |        |  |  |  |



Room Checksums

By GOCSA

CL0222 02 ALMACEN FUNGIBLE

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |           |  |  |  |  | TEMPERATURES |  |  |  |  |          |  |  |  |  |      |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|----------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|-----------|--|--|--|--|--------------|--|--|--|--|----------|--|--|--|--|------|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 2   |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB              |  |  |  |  | Cooling   |  |  |  |  | Heating      |  |  |  |  |          |  |  |  |  |      |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 19       |  |  |  |  | OADB: -5              |  |  |  |  | Plenum            |  |  |  |  | 20.8      |  |  |  |  | 22.1         |  |  |  |  |          |  |  |  |  |      |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net            |  |  |  |  | Space Sensible        |  |  |  |  | Space Peak        |  |  |  |  | Coil Peak |  |  |  |  | Percent      |  |  |  |  | Of Total |  |  |  |  |      |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | Total          |  |  |  |  | kW                    |  |  |  |  | kW                |  |  |  |  | kW        |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | %    |  |  |  |  |
| Envelope Loads     |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Skylite Solar      |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Skylite Cond       |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Roof Cond          |  |  |  |  | 0.00                    |  |  |  |  | 0.12           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | -0.22        |  |  |  |  | 2        |  |  |  |  |      |  |  |  |  |
| Glass Solar        |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Glass Cond         |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Wall Cond          |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Partition          |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Exposed Floor      |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Infiltration       |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.00                    |  |  |  |  | 0.12           |  |  |  |  | 0.12                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | -0.22        |  |  |  |  | 2        |  |  |  |  |      |  |  |  |  |
| Internal Loads     |  |  |  |  | 0.12                    |  |  |  |  | 0.03           |  |  |  |  | 0.15                  |  |  |  |  | 0.12              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Lights             |  |  |  |  | 0.35                    |  |  |  |  | 0.35           |  |  |  |  | 0.19                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| People             |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Misc               |  |  |  |  | 0.47                    |  |  |  |  | 0.03           |  |  |  |  | 0.50                  |  |  |  |  | 0.31              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.02                    |  |  |  |  | -0.02          |  |  |  |  | 0.00                  |  |  |  |  | 0.02              |  |  |  |  | -0.03     |  |  |  |  | 0            |  |  |  |  | 0        |  |  |  |  |      |  |  |  |  |
| Ceiling Load       |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | -7.45    |  |  |  |  | 79   |  |  |  |  |
| Ventilation Load   |  |  |  |  | 0                       |  |  |  |  | 0.00           |  |  |  |  | 6.31                  |  |  |  |  | 0                 |  |  |  |  | 0         |  |  |  |  | 0            |  |  |  |  | 0        |  |  |  |  | 0    |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 2                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Exhaust Heat       |  |  |  |  | 0.00                    |  |  |  |  | -0.39          |  |  |  |  | -0.39                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.19         |  |  |  |  | -2       |  |  |  |  |      |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  | 0.00                    |  |  |  |  | 0.43           |  |  |  |  | 0.43                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  | 0.00                    |  |  |  |  | 0.25           |  |  |  |  | 0.25                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | -2.00     |  |  |  |  | 21           |  |  |  |  | 21       |  |  |  |  |      |  |  |  |  |
| Reheat at Design   |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0.00     |  |  |  |  | 0.00 |  |  |  |  |
| Grand Total ==>    |  |  |  |  | 0.49                    |  |  |  |  | -0.01          |  |  |  |  | 9.33                  |  |  |  |  | 0.33              |  |  |  |  | -0.03     |  |  |  |  | -9.48        |  |  |  |  | 100.00   |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Lvg  |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C   |  |  |  |  |
| 9.33                   |  |  |  |  | 5.64      |  |  |  |  | 242                    |  |  |  |  | -2.0     |  |  |  |  | 242          |  |  |  |  | 14.8 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -6.7     |  |  |  |  | 242          |  |  |  |  | -4.9 |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -2.0     |  |  |  |  | 242          |  |  |  |  | 14.8 |  |  |  |  |
| Total                  |  |  |  |  | 9.33      |  |  |  |  | 0                      |  |  |  |  | -5.1     |  |  |  |  | 242          |  |  |  |  | 8.1  |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  | -13.8    |  |  |  |  |              |  |  |  |  |      |  |  |  |  |



Room Checksums

By GOCSA

CL0222 03 ALMACEN INSTRUMENTAL

| COOLING COIL PEAK            |  |  |  | CLG SPACE PEAK                        |  |  |  | HEATING COIL PEAK              |  |  |  | TEMPERATURES                        |  |  |  |
|------------------------------|--|--|--|---------------------------------------|--|--|--|--------------------------------|--|--|--|-------------------------------------|--|--|--|
| Peaked at Time: Outside Air: |  |  |  | Mo/Hr: 7 / 15 OADBWB/HR: 36 / 22 / 11 |  |  |  | Mo/Hr: Heating Design OADB: -5 |  |  |  | SADB Cooling Heating 22.1 22.1      |  |  |  |
| Sens. + Lat. kW              |  |  |  | Plenum Sens. + Lat. kW                |  |  |  | Space Peak Sens kW             |  |  |  | Plenum Return Ret/OA 22.5 21.3 21.3 |  |  |  |
| Net Total kW                 |  |  |  | Percent Of Total (%)                  |  |  |  | Coil Peak Tot Sens kW          |  |  |  | Return Ret/OA 36.5 -4.9             |  |  |  |
| Envelope Loads               |  |  |  | Percent Of Total (%)                  |  |  |  | Space Peak Sens kW             |  |  |  | Fn MtrTD 0.2 0.0                    |  |  |  |
| Skylite Solar                |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  | Fn BidTD 0.4 0.0                    |  |  |  |
| Skylite Cond                 |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  | Fn Frict 1.1 0.0                    |  |  |  |
| Roof Cond                    |  |  |  | 1                                     |  |  |  | 0.00                           |  |  |  |                                     |  |  |  |
| Glass Solar                  |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  |                                     |  |  |  |
| Glass Cond                   |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  |                                     |  |  |  |
| Wall Cond                    |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  |                                     |  |  |  |
| Partition                    |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  |                                     |  |  |  |
| Exposed Floor                |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  |                                     |  |  |  |
| Infiltration                 |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  |                                     |  |  |  |
| Sub Total ==>                |  |  |  | 1                                     |  |  |  | 0.00                           |  |  |  |                                     |  |  |  |
| Internal Loads               |  |  |  |                                       |  |  |  |                                |  |  |  | AIRFLOWS                            |  |  |  |
| Lights                       |  |  |  | 2                                     |  |  |  | 0.00                           |  |  |  | Cooling Heating 264 264             |  |  |  |
| People                       |  |  |  | 4                                     |  |  |  | 0.00                           |  |  |  | Vent 264 264                        |  |  |  |
| Misc                         |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  | Infil 0 0                           |  |  |  |
| Sub Total ==>                |  |  |  | 5                                     |  |  |  | -0.24                          |  |  |  | Supply 264 264                      |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  | MinStop/Rh 264 264                  |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  | Return 264 264                      |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  | Exhaust 264 264                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  | Rm Exh 0 0                          |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  | Auxil 0 0                           |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
| Ceiling Load                 |  |  |  | 0                                     |  |  |  | -0.03                          |  |  |  | ENGINEERING CKS                     |  |  |  |
| Ventilation Load             |  |  |  | 68                                    |  |  |  | 0.00                           |  |  |  | Cooling Heating 100.0 100.0         |  |  |  |
| Adj Air Trans Heat           |  |  |  | 0                                     |  |  |  | 0                              |  |  |  | % OA 11.25 11.25                    |  |  |  |
| Dehumid. Ov Sizing           |  |  |  | 23                                    |  |  |  | 0.00                           |  |  |  | Lps/m² 25.91 11.25                  |  |  |  |
| OvUndr Sizing                |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  | Lps/kW 2.30 2.30                    |  |  |  |
| Exhaust Heat                 |  |  |  | -4                                    |  |  |  | 0.00                           |  |  |  | W/m² 433.99 -642.17                 |  |  |  |
| Sup. Fan Heat                |  |  |  | 5                                     |  |  |  | 0.00                           |  |  |  |                                     |  |  |  |
| Ret. Fan Heat                |  |  |  | 3                                     |  |  |  | -2.18                          |  |  |  |                                     |  |  |  |
| Duct Heat PkUp               |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  |                                     |  |  |  |
| Reheat at Design             |  |  |  | 0                                     |  |  |  | 0.00                           |  |  |  |                                     |  |  |  |
| Grand Total ==>              |  |  |  | 10.17                                 |  |  |  | -0.03                          |  |  |  | No. People 2                        |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |
|                              |  |  |  |                                       |  |  |  |                                |  |  |  |                                     |  |  |  |



Room Checksums

By GOCSA

CL0222 04 ALMACEN IMPLANTES

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK     |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |           |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------|--|--|--|--|-----------------------|--|--|--|--|--------------------|--|--|--|--|-----------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 2       |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB               |  |  |  |  | Cooling   |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 19           |  |  |  |  | OADB: -5              |  |  |  |  | Plenum             |  |  |  |  | 20.8      |  |  |  |  | 22.1         |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net                |  |  |  |  | Space                 |  |  |  |  | Space Peak         |  |  |  |  | Coil Peak |  |  |  |  | Percent      |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                      |  |  |  |  | Total              |  |  |  |  | Sensible              |  |  |  |  | Space Sens         |  |  |  |  | Tot Sens  |  |  |  |  | Of Total     |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                      |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                 |  |  |  |  | kW        |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  | Envelope Loads     |  |  |  |  |                       |  |  |  |  | Envelope Loads     |  |  |  |  |           |  |  |  |  | Fm MtrTD     |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  |                         |  |  |  |  | Skylite Solar      |  |  |  |  |                       |  |  |  |  | Skylite Solar      |  |  |  |  |           |  |  |  |  | Fm BidTD     |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  |                         |  |  |  |  | Skylite Cond       |  |  |  |  |                       |  |  |  |  | Skylite Cond       |  |  |  |  |           |  |  |  |  | Fm Frict     |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  |                         |  |  |  |  | Roof Cond          |  |  |  |  |                       |  |  |  |  | Roof Cond          |  |  |  |  |           |  |  |  |  | 1.1          |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  |                         |  |  |  |  | Glass Solar        |  |  |  |  |                       |  |  |  |  | Glass Solar        |  |  |  |  |           |  |  |  |  | 0.2          |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  |                         |  |  |  |  | Glass Cond         |  |  |  |  |                       |  |  |  |  | Glass Cond         |  |  |  |  |           |  |  |  |  | 0.4          |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  |                         |  |  |  |  | Wall Cond          |  |  |  |  |                       |  |  |  |  | Wall Cond          |  |  |  |  |           |  |  |  |  | 0.0          |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  |                         |  |  |  |  | Partition          |  |  |  |  |                       |  |  |  |  | Partition          |  |  |  |  |           |  |  |  |  | 0.0          |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  |                         |  |  |  |  | Exposed Floor      |  |  |  |  |                       |  |  |  |  | Exposed Floor      |  |  |  |  |           |  |  |  |  | 0.0          |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  |                         |  |  |  |  | Infiltration       |  |  |  |  |                       |  |  |  |  | Infiltration       |  |  |  |  |           |  |  |  |  | 0.0          |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>      |  |  |  |  |           |  |  |  |  | 0.0          |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  | Internal Loads     |  |  |  |  |                       |  |  |  |  | Internal Loads     |  |  |  |  |           |  |  |  |  | Vent         |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  |                         |  |  |  |  | Lights             |  |  |  |  |                       |  |  |  |  | Lights             |  |  |  |  |           |  |  |  |  | 235          |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  |                         |  |  |  |  | People             |  |  |  |  |                       |  |  |  |  | People             |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  |                         |  |  |  |  | Misc               |  |  |  |  |                       |  |  |  |  | Misc               |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>      |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  | Ceiling Load       |  |  |  |  |                       |  |  |  |  | Ceiling Load       |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  |                         |  |  |  |  | Ventilation Load   |  |  |  |  |                       |  |  |  |  | Ventilation Load   |  |  |  |  |           |  |  |  |  | -7.25        |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  |                         |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                       |  |  |  |  | Adj Air Trans Heat |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                       |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  |                         |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |                       |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  |                         |  |  |  |  | Exhaust Heat       |  |  |  |  |                       |  |  |  |  | Exhaust Heat       |  |  |  |  |           |  |  |  |  | 0.19         |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  |                         |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                       |  |  |  |  | Sup. Fan Heat      |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  |                         |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                       |  |  |  |  | Ret. Fan Heat      |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  |                         |  |  |  |  | Duct Heat Pkup     |  |  |  |  |                       |  |  |  |  | Duct Heat Pkup     |  |  |  |  |           |  |  |  |  | -1.95        |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  |                         |  |  |  |  | Reheat at Design   |  |  |  |  |                       |  |  |  |  | Reheat at Design   |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                         |  |  |  |  | Grand Total ==>    |  |  |  |  |                       |  |  |  |  | Grand Total ==>    |  |  |  |  |           |  |  |  |  | -9.22        |  |  |  |  |  |  |  |  |  |
| 0.48               |  |  |  |  |                         |  |  |  |  | 0.33               |  |  |  |  |                       |  |  |  |  | -0.03              |  |  |  |  |           |  |  |  |  | 2            |  |  |  |  |  |  |  |  |  |
| 100.00             |  |  |  |  |                         |  |  |  |  | 100.00             |  |  |  |  |                       |  |  |  |  | 100.00             |  |  |  |  |           |  |  |  |  | 100.00       |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Lvg  |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C   |  |  |  |  |
| 9.08                   |  |  |  |  | 5.49      |  |  |  |  | 235                    |  |  |  |  | -2.0     |  |  |  |  | 235          |  |  |  |  | 14.8 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -6.5     |  |  |  |  | 235          |  |  |  |  | -4.9 |  |  |  |  |
| 9.08                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -2.0     |  |  |  |  | 235          |  |  |  |  | 14.8 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -5.0     |  |  |  |  | 235          |  |  |  |  | 8.1  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | -13.4    |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0         |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |      |  |  |  |  |



CL0223 01 PREPARACION-LAVAMANOS

| COOLING COIL PEAK            |                    |                     |           | CLG SPACE PEAK                   |                  |       |                  | HEATING COIL PEAK              |                    |                  |  |
|------------------------------|--------------------|---------------------|-----------|----------------------------------|------------------|-------|------------------|--------------------------------|--------------------|------------------|--|
| Peaked at Time: Outside Air: |                    |                     |           | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |                  |       |                  | Mo/Hr: Heating Design OADB: -5 |                    |                  |  |
| Sens. + Lat.                 | Space Sens. + Lat. | Plenum Sens. + Lat. | Net Total | Space Sensible                   | Percent Of Total | Space | Percent Of Total | Space Sens                     | Coil Peak Tot Sens | Percent Of Total |  |
| kW                           | kW                 | kW                  | kW        | kW                               | (%)              | kW    | (%)              | kW                             | kW                 | (%)              |  |
| Envelope Loads               |                    |                     |           |                                  |                  |       |                  |                                |                    |                  |  |
| Skylite Solar                | 0.00               | 0.00                | 0.00      | 0.00                             | 0                | 0.00  | 0                | 0.00                           | 0.00               | 0                |  |
| Skylite Cond                 | 0.00               | 0.00                | 0.00      | 0.00                             | 0                | 0.00  | 0                | 0.00                           | 0.00               | 0                |  |
| Roof Cond                    | 0.00               | 0.45                | 0.45      | 0.00                             | 2                | 0.00  | 0                | 0.00                           | -0.83              | 3                |  |
| Glass Solar                  | 0.22               | 0.00                | 0.22      | 0.00                             | 1                | 0.34  | 5                | 0.00                           | 0.00               | 0                |  |
| Glass Cond                   | 0.02               | 0.00                | 0.02      | 0.00                             | 0                | 0.01  | 0                | -0.06                          | -0.06              | 0                |  |
| Wall Cond                    | 0.02               | 0.00                | 0.02      | 0.00                             | 0                | 0.00  | 0                | -0.07                          | -0.09              | 0                |  |
| Partition                    | 0.04               | 0.04                | 0.04      | 0.00                             | 0                | 0.01  | 0                | -0.09                          | -0.09              | 0                |  |
| Exposed Floor                | 0.00               | 0.00                | 0.00      | 0.00                             | 0                | 0.00  | 0                | 0.00                           | 0.00               | 0                |  |
| Infiltration                 | 0.00               | 0.00                | 0.00      | 0.00                             | 0                | 0.00  | 0                | 0.00                           | 0.00               | 0                |  |
| Sub Total ==>                | 0.30               | 0.45                | 0.75      | 0.75                             | 3                | 0.36  | 6                | -0.22                          | -1.07              | 4                |  |
| Internal Loads               |                    |                     |           |                                  |                  |       |                  |                                |                    |                  |  |
| Lights                       | 0.72               | 0.18                | 0.90      | 0.90                             | 4                | 0.72  | 12               | 0.00                           | 0.00               | 0                |  |
| People                       | 2.44               |                     | 2.44      | 2.44                             | 10               | 1.33  | 21               | 0.00                           | 0.00               | 0                |  |
| Misc                         | 3.75               | 0.00                | 3.75      | 3.75                             | 15               | 3.75  | 60               | 0.00                           | 0.00               | 0                |  |
| Sub Total ==>                | 6.91               | 0.18                | 7.09      | 7.09                             | 29               | 5.80  | 94               | 0.00                           | 0.00               | 0                |  |
| Ceiling Load                 |                    |                     |           |                                  |                  |       |                  |                                |                    |                  |  |
| Ventilation Load             | 0.10               | -0.10               | 0.00      | 0.00                             | 0                | 0.04  | 1                | -0.13                          | 0                  | 0                |  |
| Adj Air Trans Heat           | 0.00               | 0.00                | 15.58     | 15.58                            | 64               | 0.00  | 0                | 0.00                           | -22.40             | 74               |  |
| Dehumid. Ov Sizing           | 0                  |                     | 0         | 0                                | 0                | 0     | 0                | 0                              | 0                  | 0                |  |
| OvUndr Sizing                | 0.00               | -1.29               | 0.00      | 0.00                             | 0                | 0.00  | 0                | 0.00                           | 0.00               | 0                |  |
| Exhaust Heat                 |                    |                     | -1.29     | -1.29                            | -5               |       |                  | 0.72                           | 0.72               | -2               |  |
| Sup. Fan Heat                |                    |                     | 1.29      | 1.29                             | 5                |       |                  | 0.00                           | 0.00               | 0                |  |
| Ret. Fan Heat                |                    | 0.75                | 0.75      | 0.75                             | 3                |       |                  | 0.00                           | 0.00               | 0                |  |
| Duct Heat Pkup               |                    | 0.00                | 0.00      | 0.00                             | 0                |       |                  | -7.51                          | -7.51              | 25               |  |
| Reheat at Design             |                    |                     | 0.00      | 0.00                             | 0                |       |                  | 0.00                           | 0.00               | 0                |  |
| Grand Total ==>              | 7.31               | -0.01               | 24.21     | 24.21                            | 100.00           | 6.20  | 100.00           | -0.35                          | -30.26             | 100.00           |  |

| COOLING COIL SELECTION |           |              |       |          |         | AREAS       |       |       |  |
|------------------------|-----------|--------------|-------|----------|---------|-------------|-------|-------|--|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | DB/WB/HR | Leave   | Gross Total | Glass |       |  |
| kW                     | kW        | L/s          | °C    | °C g/kg  | °C g/kg | m²          | (%)   |       |  |
| Main Clg               | 24.22     | 19.58        | 728   | 36.5     | 21.6    | 82          |       | Floor |  |
| Aux Clg                | 0.00      | 0.00         | 0     | 0.0      | 0.0     | 198         |       | Part  |  |
| Opt Vent               | 0.00      | 0.00         | 0     | 0.0      | 0.0     | 0           |       | ExFlr |  |
| Total                  | 24.22     |              |       |          |         | 82          |       | Roof  |  |
|                        |           |              |       |          |         | 9           |       | Wall  |  |

| HEATING COIL SELECTION |              |     |      |      |
|------------------------|--------------|-----|------|------|
| Capacity               | Coil Airflow | Ent | Lvg  |      |
| kW                     | L/s          | °C  | °C   |      |
| Main Htg               | -7.9         | 728 | 13.0 | 22.4 |
| Aux Htg                | 0.0          | 0   | 0.0  | 0.0  |
| Preheat                | -14.9        | 728 | -4.9 | 13.0 |
| Reheat                 | -7.5         | 728 | 13.0 | 22.0 |
| Humidif                | -15.3        | 728 | 0.5  | 8.1  |
| Opt Vent               | 0.0          | 0   | 0.0  | 0.0  |
| Total                  | -38.1        |     |      |      |



Room Checksums

By GOCSA

CL0224 01 PREPARACION-LAVAMANOS

| COOLING COIL PEAK   |  |          |                       |              |                      |                   |  |                      |                          | CLG SPACE PEAK                 |                       |                      |  | HEATING COIL PEAK |  |  |  | TEMPERATURES |  |  |  |  |
|---|--|----------|-----------------------|--------------|----------------------|-------------------|--|----------------------|--------------------------|--------------------------------|-----------------------|----------------------|--|-------------------|--|--|--|--------------|--|--|--|--|
| Peaked at Time: Outside Air: OADBWB/Hr: 36 / 22 / 11 Mo/Hr: 7 / 15 OADB: 30 |  |          |                       |              |                      |                   |  |                      |                          | Mo/Hr: Heating Design OADB: -5 |                       |                      |  |                   |  |  |  |              |  |  |  |  |
| Sens. + Lat.  |  | Space kW | Plenum Sens. + Lat kW | Net Total kW | Percent Of Total (%) | Space Sensible kW |  | Percent Of Total (%) | Space Peak Space Sens kW |                                | Coil Peak Tot Sens kW | Percent Of Total (%) |  |                   |  |  |  |              |  |  |  |  |
| Envelope Loads  |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
| Skylite Solar   |  | 0.00     | 0.00                  | 0.00         | 0                    | 0.00              |  | 0                    | 0.00                     |                                | 0.00                  | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Skylite Cond  |  | 0.00     | 0.00                  | 0.00         | 0                    | 0.00              |  | 0                    | 0.00                     |                                | 0.00                  | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Roof Cond   |  | 0.00     | 0.45                  | 0.45         | 2                    | 0.00              |  | 0                    | 0.00                     |                                | -0.83                 | 3                    |  |                   |  |  |  |              |  |  |  |  |
| Glass Solar   |  | 0.25     | 0.00                  | 0.25         | 1                    | 0.37              |  | 6                    | 0.00                     |                                | 0.00                  | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Glass Cond  |  | 0.02     | 0.00                  | 0.02         | 0                    | 0.01              |  | 0                    | -0.06                    |                                | -0.06                 | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Wall Cond   |  | 0.02     | 0.00                  | 0.02         | 0                    | 0.00              |  | 0                    | -0.07                    |                                | -0.09                 | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Partition   |  | 0.04     | 0.04                  | 0.04         | 0                    | 0.01              |  | 0                    | -0.09                    |                                | -0.09                 | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Exposed Floor   |  | 0.00     | 0.00                  | 0.00         | 0                    | 0.00              |  | 0                    | 0.00                     |                                | 0.00                  | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Infiltration  |  | 0.00     | 0.00                  | 0.00         | 0                    | 0.00              |  | 0                    | 0.00                     |                                | 0.00                  | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Sub Total ==>   |  | 0.33     | 0.45                  | 0.78         | 3                    | 0.39              |  | 6                    | -0.22                    |                                | -1.07                 | 4                    |  |                   |  |  |  |              |  |  |  |  |
| Internal Loads  |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
| Lights  |  | 0.72     | 0.18                  | 0.90         | 4                    | 0.72              |  | 12                   | 0.00                     |                                | 0.00                  | 0                    |  |                   |  |  |  |              |  |  |  |  |
| People  |  | 2.44     |                       | 2.44         | 10                   | 1.33              |  | 21                   | 0.00                     |                                | 0.00                  | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Misc  |  | 3.75     | 0.00                  | 3.75         | 15                   | 3.75              |  | 60                   | 0.00                     |                                | 0.00                  | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Sub Total ==>   |  | 6.91     | 0.18                  | 7.09         | 29                   | 5.80              |  | 93                   | 0.00                     |                                | 0.00                  | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Ceiling Load  |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
| Ventilation Load  |  | 0.10     | -0.10                 | 0.00         | 0                    | 0.04              |  | 1                    | -0.13                    |                                | 0                     | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Adj Air Trans Heat  |  | 0.00     | 0.00                  | 15.68        | 64                   | 0.00              |  | 0                    | 0.00                     |                                | -22.54                | 74                   |  |                   |  |  |  |              |  |  |  |  |
| Dehumid. Ov Sizing  |  | 0        |                       | 0            | 0                    | 0                 |  | 0                    | 0                        |                                | 0                     | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Ov/Undr Sizing  |  | 0.00     |                       | 0.00         | 0                    | 0.00              |  | 0                    | 0.00                     |                                | 0.00                  | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Exhaust Heat  |  |          | -1.30                 | -1.30        | -5                   |                   |  |                      | 0.00                     |                                | 0.72                  | -2                   |  |                   |  |  |  |              |  |  |  |  |
| Sup. Fan Heat   |  |          |                       | 1.30         | 5                    |                   |  |                      | 0.00                     |                                | 0.00                  | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Ret. Fan Heat   |  |          | 0.76                  | 0.76         | 3                    |                   |  |                      | 0.00                     |                                | 0.00                  | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Duct Heat Pkup  |  |          | 0.00                  | 0.00         | 0                    |                   |  |                      | -7.55                    |                                | -7.55                 | 25                   |  |                   |  |  |  |              |  |  |  |  |
| Reheat at Design  |  |          |                       | 0.00         | 0                    |                   |  |                      | 0.00                     |                                | 0.00                  | 0                    |  |                   |  |  |  |              |  |  |  |  |
| Grand Total ==>   |  | 7.34     | -0.01                 | 24.34        | 100.00               | 6.23              |  | 100.00               | -0.35                    |                                | -30.44                | 100.00               |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  | No. People 15     |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |
|   |  |          |                       |              |                      |                   |  |                      |                          |                                |                       |                      |  |                   |  |  |  |              |  |  |  |  |



## Room Checksums

By GOCSA

FC0101 01 ASEO ASEO ACCESIBLE EX 4/75

| COOLING COIL PEAK            |  |                    |  |           |  |                |  |                  |  | CLG SPACE PEAK                            |  |                    |  | HEATING COIL PEAK         |  |       |  | TEMPERATURES                      |  |         |  |
|------------------------------|--|--------------------|--|-----------|--|----------------|--|------------------|--|---|--|--------------------|--|---------------------------|--|-------|--|-----------------------------------|--|---------|--|
| Peaked at Time: Outside Air: |  |                    |  |           |  |                |  |                  |  | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |  |                    |  | Mo/Hr: 7 / 18<br>OADB: 32 |  |       |  | Mo/Hr: Heating Design<br>OADB: -5 |  |         |  |
| Space Sens. + Lat.           |  | Plenum Sens. + Lat |  | Net Total |  | Space Sensible |  | Percent Of Total |  | Space Peak Space Sens                     |  | Coil Peak Tot Sens |  | Percent Of Total          |  | SADB  |  | Cooling                           |  | Heating |  |
| kW                           |  | kW                 |  | kW        |  | kW             |  | %                |  | kW  |  | kW                 |  | %                         |  |       |  |                                   |  |         |  |
| Envelope Loads               |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                           |  |       |  |                                   |  |         |  |
| Skylite Solar                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 12.8                              |  | 30.0    |  |
| Skylite Cond                 |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 25.5                              |  | 20.8    |  |
| Roof Cond                    |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 25.5                              |  | 20.8    |  |
| Glass Solar                  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 25.5                              |  | 20.8    |  |
| Glass Cond                   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 0.0                               |  | 0.0     |  |
| Wall Cond                    |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 0.0                               |  | 0.0     |  |
| Partition                    |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 0.0                               |  | 0.0     |  |
| Exposed Floor                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 0.0                               |  | 0.0     |  |
| Infiltration                 |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 0.0                               |  | 0.0     |  |
| Sub Total ==>                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 0.0                               |  | 0.0     |  |
| Internal Loads               |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                           |  |       |  |                                   |  |         |  |
| Lights                       |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 0                                 |  | 0       |  |
| People                       |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 0                                 |  | 0       |  |
| Misc                         |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 0                                 |  | 0       |  |
| Sub Total ==>                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 0                                 |  | 0       |  |
| Ceiling Load                 |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                           |  |       |  |                                   |  |         |  |
| Ventilation Load             |  | 0.04               |  | -0.04     |  | 0.00           |  | 0                |  | 0.05                                      |  | -0.04              |  | 0                         |  | 0.00  |  | 0.0                               |  | 0.0     |  |
| Adj Air Trans Heat           |  | 0                  |  | 0.00      |  | 0.00           |  | 0                |  | 0   |  | 0                  |  | 0                         |  | 0.00  |  | 0.0                               |  | 0.0     |  |
| Dehumid. Ov Sizing           |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 0.24                              |  | 0.24    |  |
| Ov/Undr Sizing               |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 568,557.96                        |  | 0       |  |
| Exhaust Heat                 |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  |                                   |  |         |  |
| Sup. Fan Heat                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  |                                   |  |         |  |
| Ret. Fan Heat                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  |                                   |  |         |  |
| Duct Heat PkUp               |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | 0.00               |  | 0                         |  | 0.00  |  | 373,998.90                        |  | 0       |  |
| Reheat at Design             |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                                      |  | -0.04              |  | 0                         |  | -0.04 |  | 0.00                              |  | -2.51   |  |
| Grand Total ==>              |  | 0.04               |  | -0.04     |  | 0.00           |  | 100.00           |  | 0.05                                      |  | -0.04              |  | 100.00                    |  | -0.04 |  | 0                                 |  |         |  |
| ENGINEERING CKS              |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                           |  |       |  |                                   |  |         |  |
| % OA                         |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                           |  |       |  | Cooling                           |  | Heating |  |
|                              |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                           |  |       |  | 0.0                               |  | 0.0     |  |
| Lps/m²                       |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                           |  |       |  | 0.24                              |  | 0.24    |  |
| Lps/kW                       |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                           |  |       |  | 568,557.96                        |  | 0       |  |
| m²/kW                        |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                           |  |       |  | 373,998.90                        |  | 0       |  |
| W/m²                         |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                           |  |       |  | 0.00                              |  | -2.51   |  |
| No. People                   |  |                    |  |           |  |                |  |                  |  |   |  |                    |  |                           |  |       |  | 0                                 |  |         |  |

| COOLING COIL SELECTION |  |      |  |      |  |      |  |   |  | AREAS       |  |      |  | HEATING COIL SELECTION |  |      |  |                  |  |     |  |          |  |     |  |   |  |      |  |      |  |
|------------------------|--|------|--|------|--|------|--|---|--|-------------|--|------|--|------------------------|--|------|--|------------------|--|-----|--|----------|--|-----|--|---|--|------|--|------|--|
| Total Capacity kW      |  |      |  |      |  |      |  |   |  | Gross Total |  |      |  | Capacity kW            |  |      |  | Coil Airflow L/s |  |     |  | Lvg °C   |  |     |  |   |  |      |  |      |  |
| Main Clg               |  | 0.00 |  | 0.00 |  | 0.00 |  | 4 |  | 25.5        |  | 14.2 |  | 6.4                    |  | 12.8 |  | 9.2              |  | 6.4 |  | Main Htg |  | 0.0 |  | 4 |  | 20.8 |  | 30.0 |  |
| Aux Clg                |  | 0.00 |  | 0.00 |  | 0.00 |  | 0 |  | 0.0         |  | 0.0  |  | 0.0                    |  | 0.0  |  | 0.0              |  | 0.0 |  | Aux Htg  |  | 0.0 |  | 0 |  | 0.0  |  | 0.0  |  |
| Opt Vent               |  | 0.00 |  | 0.00 |  | 0.00 |  | 0 |  | 0.0         |  | 0.0  |  | 0.0                    |  | 0.0  |  | 0.0              |  | 0.0 |  | Preheat  |  | 0.0 |  | 0 |  | 0.0  |  | 0.0  |  |
| Total                  |  | 0.00 |  |      |  |      |  |   |  |             |  |      |  |                        |  |      |  | 0                |  | 0   |  | Humidif  |  | 0.0 |  | 0 |  | 0.0  |  | 0.0  |  |
|                        |  |      |  |      |  |      |  |   |  |             |  |      |  |                        |  |      |  | 0                |  | 0   |  | Opt Vent |  | 0.0 |  | 0 |  | 0.0  |  | 0.0  |  |
|                        |  |      |  |      |  |      |  |   |  |             |  |      |  |                        |  |      |  |                  |  |     |  | Total    |  |     |  |   |  |      |  | 0.0  |  |



## Room Checksums

By GOCSA

FC0101 02 VESTUARIO PERSONAL EX 4/100

| COOLING COIL PEAK  |                    |           |                      |                        |                      |                    |                       |                    |                      | CLG SPACE PEAK |  |                       |  | HEATING COIL PEAK |  |  |  | TEMPERATURES |  |  |  |
|--------------------|--------------------|-----------|----------------------|------------------------|----------------------|--------------------|-----------------------|--------------------|----------------------|----------------|--|-----------------------|--|-------------------|--|--|--|--------------|--|--|--|
| Peaked at Time:    |                    |           |                      | Mo/Hr: 7 / 3           |                      |                    |                       | Mo/Hr: 7 / 18      |                      |                |  | Mo/Hr: Heating Design |  |                   |  |  |  |              |  |  |  |
| Outside Air:       |                    |           |                      | OADB/WB/HR: 18 / 9 / 4 |                      |                    |                       | OADB: 32           |                      |                |  | OADB: -5              |  |                   |  |  |  |              |  |  |  |
| Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total (%) | Space Sensible         | Percent Of Total (%) | Envelope Loads     | Space Peak Space Sens | Coil Peak Tot Sens | Percent Of Total (%) |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Envelope Loads     |                    |           |                      |                        |                      |                    |                       |                    |                      |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Skylite Solar      | 0.00               | 0.00      | 0                    | 0.00                   | 0                    | Skylite Solar      | 0.00                  | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Skylite Cond       | 0.00               | 0.00      | 0                    | 0.00                   | 0                    | Skylite Cond       | 0.00                  | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Roof Cond          | 0.00               | 0.14      | 0                    | 0.00                   | 0                    | Roof Cond          | 0.00                  | -0.21              | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Glass Solar        | 0.00               | 0.00      | 0                    | 0.00                   | 0                    | Glass Solar        | 0.00                  | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Glass Cond         | 0.00               | 0.00      | 0                    | 0.00                   | 0                    | Glass Cond         | 0.00                  | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Wall Cond          | 0.03               | 0.04      | 0                    | 0.01                   | 0                    | Wall Cond          | -0.06                 | -0.07              | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Partition          | 0.00               | 0.00      | 0                    | 0.00                   | 0                    | Partition          | 0.00                  | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Exposed Floor      | 0.00               | 0.00      | 0                    | 0.00                   | 0                    | Exposed Floor      | 0.00                  | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Infiltration       | 0.00               | 0.00      | 0                    | 0.00                   | 0                    | Infiltration       | 0.00                  | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Sub Total ==>      | 0.03               | 0.18      | 0                    | 0.01                   | 0                    | Sub Total ==>      | -0.06                 | -0.28              | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Internal Loads     |                    |           |                      |                        |                      |                    |                       |                    |                      |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Lights             | 0.00               | 0.00      | 0                    | 0.00                   | 0                    | Lights             | 0.00                  | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| People             | 0.00               | 0.00      | 0                    | 0.00                   | 0                    | People             | 0.00                  | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Misc               | 0.00               | 0.00      | 0                    | 0.00                   | 0                    | Misc               | 0.00                  | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Sub Total ==>      | 0.00               | 0.00      | 0                    | 0.00                   | 0                    | Sub Total ==>      | 0.00                  | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| ENGINEERING CKS    |                    |           |                      |                        |                      |                    |                       |                    |                      |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Ceiling Load       | 0.02               | -0.02     | 0                    | 0.06                   | 0                    | Ceiling Load       | -0.05                 | 0                  | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Ventilation Load   | 0.00               | 0.00      | 0                    | 0.00                   | 0                    | Ventilation Load   | 0.00                  | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Adj Air Trans Heat | 0                  | 0.00      | 0                    | 0                      | 0                    | Adj Air Trans Heat | 0                     | 0                  | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Dehumid. Ov Sizing |                    | 0         | 0                    |                        | 0                    | Ov/Undr Sizing     | 0.00                  | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Ov/Undr Sizing     | 0.00               | 0.00      | 0                    | 0.00                   | 0                    | Exhaust Heat       |                       | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Exhaust Heat       |                    | 0.00      | 0                    |                        | 0                    | OA Preheat Diff.   |                       | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Sup. Fan Heat      |                    | 0.00      | 0                    |                        | 0                    | RA Preheat Diff.   |                       | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Ret. Fan Heat      |                    | 0.00      | 0                    |                        | 0                    | Additional Reheat  |                       | 0.00               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Duct Heat PkUp     |                    | 0.00      | 0                    |                        | 0                    | System Plenum Heat |                       | 0.17               | 0                    |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Reheat at Design   |                    | 0.00      | 0                    |                        | 0                    |                    |                       |                    |                      |                |  |                       |  |                   |  |  |  |              |  |  |  |
| Grand Total ==>    | 0.05               | 0.13      | 0.18                 | 0.07                   | 100.00               | Grand Total ==>    | -0.11                 | -0.11              | 100.00               |                |  |                       |  |                   |  |  |  |              |  |  |  |

| COOLING COIL SELECTION |              |                  |          |          |                        |                        |             |          |             | HEATING COIL SELECTION |        |        |  |  |
|------------------------|--------------|------------------|----------|----------|------------------------|------------------------|-------------|----------|-------------|------------------------|--------|--------|--|--|
| Total Capacity kW      | Sens Cap. kW | Coil Airflow L/s | Enter °C | Leave °C | Enter DB/WB/HR °C g/kg | Leave DB/WB/HR °C g/kg | Gross Total | Glass m² | Capacity kW | Coil Airflow L/s       | Ent °C | Lvg °C |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | -0.1        | 6                      | 20.8   | 37.6   |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 54          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 6           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                | 0           |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.18                   | 0.18         | 6                | 24.4     | 12.8     | 13.8 6.4               | 12.8 3.4               | 21          |          | 0.0         | 0                      | 0.0    | 0.0    |  |  |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0.0 0.0                | 0.0 0.0                |             |          |             |                        |        |        |  |  |



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| COOLING COIL PEAK                                    |                       |                        |              | CLG SPACE PEAK         |                   |                      |                    | HEATING COIL PEAK              |                          |                       |                      | TEMPERATURES    |         |         |  |
|--|-----------------------|------------------------|--------------|------------------------|-------------------|----------------------|--------------------|--------------------------------|--------------------------|-----------------------|----------------------|-----------------|---------|---------|--|
| Peaked at Time: Outside Air: OADBWB/Hr: 36 / 21 / 11 |                       |                        |              | Mo/Hr: 7 / 14 OADB: 36 |                   |                      |                    | Mo/Hr: Heating Design OADB: -5 |                          |                       |                      |                 |         |         |  |
| Envelope Loads                                       | Space Sens. + Lat. kW | Plenum Sens. + Lat. kW | Net Total kW | Percent Of Total (%)   | Space Sensible kW | Percent Of Total (%) | Envelope Loads     |                                | Space Peak Space Sens kW | Coil Peak Tot Sens kW | Percent Of Total (%) | SADB            | Cooling | Heating |  |
|  |                       |                        |              |                        |                   |                      | Skylite Solar      | Skylite Cond                   |                          |                       |                      |                 |         |         |  |
| Skylite Solar  | 0.00                  | 0.00                   | 0.00         | 0                      | 0.00              | 0                    | 0.00               | 0.00                           | 0.00                     | 0.00                  | 0                    |                 | 15.2    | 23.8    |  |
| Skylite Cond   | 0.00                  | 0.00                   | 0.00         | 0                      | 0.00              | 0                    | 0.00               | 0.00                           | 0.00                     | 0.00                  | 0                    | Plenum          | 25.3    | 20.8    |  |
| Roof Cond  | 0.00                  | 0.05                   | 0.05         | 4                      | 0.00              | 0                    | 0.00               | 0.00                           | 0.00                     | -0.10                 | 0                    | Return          | 25.3    | 20.8    |  |
| Glass Solar  | 0.36                  | 0.00                   | 0.36         | 31                     | 0.36              | 36                   | 0.36               | 0.00                           | 0.00                     | 0.00                  | 0                    | Ret/OA          | 25.3    | 20.8    |  |
| Glass Cond   | 0.02                  | 0.00                   | 0.02         | 2                      | 0.02              | 2                    | 0.02               | 0.00                           | -0.09                    | -0.09                 | 0                    | Fn MtrTD        | 0.0     | 0.0     |  |
| Wall Cond  | 0.02                  | 0.00                   | 0.02         | 2                      | 0.02              | 2                    | 0.02               | 0.00                           | -0.09                    | -0.11                 | 0                    | Fn BidTD        | 0.0     | 0.0     |  |
| Partition  | 0.00                  | 0.00                   | 0.00         | 0                      | 0.00              | 0                    | 0.00               | 0.00                           | 0.00                     | 0.00                  | 0                    | Fn Frict        | 0.0     | 0.0     |  |
| Exposed Floor  | 0.00                  | 0.00                   | 0.00         | 0                      | 0.00              | 0                    | 0.00               | 0.00                           | 0.00                     | 0.00                  | 0                    |                 |         |         |  |
| Infiltration   | 0.00                  | 0.00                   | 0.00         | 0                      | 0.00              | 0                    | 0.00               | 0.00                           | 0.00                     | 0.00                  | 0                    |                 |         |         |  |
| Sub Total ==>  | 0.40                  | 0.05                   | 0.45         | 38                     | 0.40              | 40                   | Sub Total ==>      |                                | -0.18                    | -0.30                 | 0                    | Vent            | 0       | 0       |  |
| Internal Loads                                       |                       |                        |              |                        |                   |                      |                    |                                |                          |                       |                      | Supply          | 100     | 100     |  |
| Lights   | 0.09                  | 0.02                   | 0.11         | 9                      | 0.09              | 9                    | Internal Loads     |                                | 0.00                     | 0.00                  | 0                    | Return          | 100     | 100     |  |
| People   | 0.26                  | 0.00                   | 0.26         | 22                     | 0.15              | 15                   | Lights             |                                | 0.00                     | 0.00                  | 0                    | Exhaust         | 0       | 0       |  |
| Misc   | 0.35                  | 0.00                   | 0.35         | 30                     | 0.35              | 35                   | People             |                                | 0.00                     | 0.00                  | 0                    | Rm Exh          | 0       | 0       |  |
| Sub Total ==>  | 0.70                  | 0.02                   | 0.72         | 62                     | 0.59              | 58                   | Misc               |                                | 0.00                     | 0.00                  | 0                    | Auxil           | 0       | 0       |  |
| Sub Total ==>  |                       |                        |              |                        |                   |                      |                    |                                |                          |                       |                      | 0.00            | 0.00    | 0       |  |
| Ceiling Load   | 0.02                  | -0.02                  | 0.00         | 0                      | 0.02              | 2                    | Ceiling Load       |                                | -0.02                    | 0                     | 0                    | ENGINEERING CKS |         |         |  |
| Ventilation Load                                     | 0.00                  | 0.00                   | 0.00         | 0                      | 0.00              | 0                    | Ventilation Load   |                                | 0.00                     | 0.00                  | 0                    | % OA            | 0.0     | 0.0     |  |
| Adj Air Trans Heat                                   | 0                     | 0                      | 0            | 0                      | 0                 | 0                    | Adj Air Trans Heat |                                | 0                        | 0                     | 0                    | Lps/m²          | 9.84    | 9.84    |  |
| Dehumid. Ov Sizing                                   | 0.00                  |                        | 0            | 0                      | 0.00              | 0                    | Ov/Undr Sizing     |                                | 0.00                     | 0.00                  | 0                    | Lps/kW          | 85.57   |         |  |
| Exhaust Heat   |                       | 0.00                   | 0.00         | 0                      | 0.00              | 0                    | Exhaust Heat       |                                | 0.00                     | 0.00                  | 0                    | m²/kW           | 8.70    |         |  |
| Sup. Fan Heat  |                       | 0.00                   | 0.00         | 0                      | 0.00              | 0                    | OA Preheat Diff.   |                                | 0.00                     | 0.00                  | 0                    | W/m²            | 114.94  | -33.36  |  |
| Ret. Fan Heat  |                       | 0.00                   | 0.00         | 0                      | 0.00              | 0                    | RA Preheat Diff.   |                                | 0.00                     | 0.00                  | 0                    | No. People      | 2       |         |  |
| Duct Heat Pkup                                       |                       | 0.00                   | 0.00         | 0                      | 0.00              | 0                    | Additional Reheat  |                                | 0.00                     | 0.00                  | 0                    |                 |         |         |  |
| Reheat at Design                                     |                       |                        | 0.00         | 0                      |                   | 0                    | System Plenum Heat |                                | -0.04                    | -0.04                 | 0                    |                 |         |         |  |
| Grand Total ==>                                      | 1.12                  | 0.05                   | 1.17         | 100.00                 | 1.01              | 100.00               | Grand Total ==>    |                                | -0.20                    | -0.34                 | 100.00               |                 |         |         |  |

| COOLING COIL SELECTION |           |              |       |          |         |
|------------------------|-----------|--------------|-------|----------|---------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | DB/WB/HR | Leave   |
| kW                     | kW        | L/s          | °C    | °C g/kg  | °C g/kg |
| 1.17                   | 1.06      | 100          | 17.3  | 10.1     | 15.2    |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0     |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0      | 0.0     |
| 1.17                   |           |              |       |          |         |

| AREAS       |    | Glass |    |
|-------------|----|-------|----|
| Gross Total | m² | (%)   |    |
| Floor       | 10 |       |    |
| Part        | 40 |       |    |
| ExFlr       | 0  |       |    |
| Roof        | 10 | 0     | 0  |
| Wall        | 12 | 2     | 19 |

| HEATING COIL SELECTION |              |      |      |
|------------------------|--------------|------|------|
| Capacity               | Coil Airflow | Ent  | Lvg  |
| kW                     | L/s          | °C   | °C   |
| -0.3                   | 100          | 20.8 | 23.8 |
| Main Htg               | 0.0          | 0.0  | 0.0  |
| Aux Htg                | 0.0          | 0.0  | 0.0  |
| Preheat                | 0.0          | 0.0  | 0.0  |
| Humidif                | 0.0          | 0.0  | 0.0  |
| Opt Vent               | 0.0          | 0.0  | 0.0  |
| Total                  | -0.3         |      |      |



Room Checksums

By GOCSA

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| COOLING COIL PEAK  |  |  |  |  |                       |  |  |  |  | CLG SPACE PEAK  |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |           |  |  |  |  | TEMPERATURES    |  |  |  |  |        |  |  |  |  |
|--------------------|--|--|--|--|-----------------------|--|--|--|--|-----------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|-----------|--|--|--|--|-----------------|--|--|--|--|--------|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 2          |  |  |  |  | Mo/Hr: 7 / 18   |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB              |  |  |  |  | Cooling   |  |  |  |  | Heating         |  |  |  |  |        |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 19 / 9 / 4 |  |  |  |  | OADB: 32        |  |  |  |  | OADB: -5              |  |  |  |  | Plenum            |  |  |  |  | 24.5      |  |  |  |  | 20.8            |  |  |  |  |        |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                |  |  |  |  | Net             |  |  |  |  | Percent               |  |  |  |  | Space Peak        |  |  |  |  | Coil Peak |  |  |  |  | Percent         |  |  |  |  |        |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.          |  |  |  |  | Total           |  |  |  |  | Of Total              |  |  |  |  | Space Sens        |  |  |  |  | Tot Sens  |  |  |  |  | Of Total        |  |  |  |  |        |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.          |  |  |  |  | kW              |  |  |  |  | %                     |  |  |  |  | kW                |  |  |  |  | kW        |  |  |  |  | %               |  |  |  |  |        |  |  |  |  |
| Envelope Loads     |  |  |  |  |                       |  |  |  |  | Envelope Loads  |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |                 |  |  |  |  |        |  |  |  |  |
| Skylite Solar      |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Skylite Cond       |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Roof Cond          |  |  |  |  | 0.00                  |  |  |  |  | 0.08            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | -0.11     |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Glass Solar        |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Glass Cond         |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Wall Cond          |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Partition          |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Exposed Floor      |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Infiltration       |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.00                  |  |  |  |  | 0.08            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | -0.11     |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Internal Loads     |  |  |  |  |                       |  |  |  |  | Internal Loads  |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |                 |  |  |  |  |        |  |  |  |  |
| Lights             |  |  |  |  | 0.10                  |  |  |  |  | 0.12            |  |  |  |  | 0                     |  |  |  |  | 0.10              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| People             |  |  |  |  | 0.26                  |  |  |  |  | 0.26            |  |  |  |  | 0                     |  |  |  |  | 0.15              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Misc               |  |  |  |  | 0.35                  |  |  |  |  | 0.35            |  |  |  |  | 0                     |  |  |  |  | 0.35              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.71                  |  |  |  |  | 0.73            |  |  |  |  | 0                     |  |  |  |  | 0.60              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Ceiling Load       |  |  |  |  |                       |  |  |  |  | Ceiling Load    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |                 |  |  |  |  |        |  |  |  |  |
| Ventilation Load   |  |  |  |  | 0.01                  |  |  |  |  | -0.01           |  |  |  |  | 0                     |  |  |  |  | 0.03              |  |  |  |  | -0.02     |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  | 0.00                  |  |  |  |  | 0               |  |  |  |  | 0                     |  |  |  |  | 0                 |  |  |  |  | 0         |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Exhaust Heat       |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Reheat at Design   |  |  |  |  | 0.00                  |  |  |  |  | 0.00            |  |  |  |  | 0                     |  |  |  |  | 0.01              |  |  |  |  | 0.01      |  |  |  |  | 0               |  |  |  |  |        |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                       |  |  |  |  | Grand Total ==> |  |  |  |  |                       |  |  |  |  | Grand Total ==>   |  |  |  |  |           |  |  |  |  | Grand Total ==> |  |  |  |  |        |  |  |  |  |
| 0.72               |  |  |  |  | 0.09                  |  |  |  |  | 0.81            |  |  |  |  | 100.00                |  |  |  |  | 0.63              |  |  |  |  | -0.02     |  |  |  |  | -0.10           |  |  |  |  | 100.00 |  |  |  |  |
| No. People         |  |  |  |  |                       |  |  |  |  | No. People      |  |  |  |  |                       |  |  |  |  | No. People        |  |  |  |  |           |  |  |  |  | No. People      |  |  |  |  |        |  |  |  |  |
| 2                  |  |  |  |  |                       |  |  |  |  | 2               |  |  |  |  |                       |  |  |  |  | 2                 |  |  |  |  |           |  |  |  |  | 2               |  |  |  |  |        |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|---------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Enter    |  |  |  |  | Leave   |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | °C       |  |  |  |  | °C      |  |  |  |  |
| 0.81                   |  |  |  |  | 0.70      |  |  |  |  | 56                     |  |  |  |  | 24.5     |  |  |  |  | 14.2    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0     |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0     |  |  |  |  |
| Main Clg               |  |  |  |  | Aux Clg   |  |  |  |  | Opt Vent               |  |  |  |  | Main Htg |  |  |  |  | Aux Htg |  |  |  |  |
| 0.81                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  | 0.00    |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0.00     |  |  |  |  |         |  |  |  |  |



Room Checksums

By GOCSA

FC0101 05 ASEO PERS ASEO PERS EX 4/50

| COOLING COIL PEAK               |  |        |  |       |                                       |              |  |             |  | CLG SPACE PEAK            |  |               |  |             | HEATING COIL PEAK                 |              |  |            |  | TEMPERATURES |  |         |  |  |  |
|---------------------------------|--|--------|--|-------|---------------------------------------|--------------|--|-------------|--|---------------------------|--|---------------|--|-------------|-----------------------------------|--------------|--|------------|--|--------------|--|---------|--|--|--|
| Peaked at Time:<br>Outside Air: |  |        |  |       | Mo/Hr: 7 / 2<br>OADBWB/Hr: 19 / 9 / 4 |              |  |             |  | Mo/Hr: 7 / 18<br>OADB: 32 |  |               |  |             | Mo/Hr: Heating Design<br>OADB: -5 |              |  |            |  |              |  |         |  |  |  |
| Sens. + Lat.                    |  | Plenum |  | Net   |                                       | Percent      |  | Space       |  | Percent                   |  | Space Peak    |  | Coil Peak   |                                   | Percent      |  | SADB       |  | Cooling      |  | Heating |  |  |  |
| kW                              |  | kW     |  | kW    |                                       | Of Total (%) |  | Sensible kW |  | Of Total (%)              |  | Space Sens kW |  | Tot Sens kW |                                   | Of Total (%) |  | Plenum     |  | 24.5         |  | 20.8    |  |  |  |
| Envelope Loads                  |  |        |  |       |                                       |              |  |             |  | Envelope Loads            |  |               |  |             |                                   |              |  |            |  | Fn MtrTD     |  |         |  |  |  |
| Skylite Solar                   |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | 0.0        |  | 12.8         |  | 30.0    |  |  |  |
| Skylite Cond                    |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | 0.0        |  | 24.5         |  | 20.8    |  |  |  |
| Roof Cond                       |  | 0.00   |  | 0.05  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | -0.07       |                                   | 0            |  | Return     |  | 24.5         |  | 20.8    |  |  |  |
| Glass Solar                     |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | Ret/OA     |  | 24.5         |  | 20.8    |  |  |  |
| Glass Cond                      |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | Fn MtrTD   |  | 0.0          |  | 0.0     |  |  |  |
| Wall Cond                       |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | Fn BidTD   |  | 0.0          |  | 0.0     |  |  |  |
| Partition                       |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | Fn Frict   |  | 0.0          |  | 0.0     |  |  |  |
| Exposed Floor                   |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |            |  |              |  |         |  |  |  |
| Infiltration                    |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |            |  |              |  |         |  |  |  |
| Sub Total ==>                   |  | 0.00   |  | 0.05  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | -0.07       |                                   | 0            |  | Supply     |  | 2            |  | 2       |  |  |  |
| Internal Loads                  |  |        |  |       |                                       |              |  |             |  | Internal Loads            |  |               |  |             |                                   |              |  |            |  | MinStop/Rh   |  |         |  |  |  |
| Lights                          |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | Vent       |  | 0            |  | 0       |  |  |  |
| People                          |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | Infil      |  | 0            |  | 0       |  |  |  |
| Misc                            |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | Supply     |  | 2            |  | 2       |  |  |  |
| Sub Total ==>                   |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | Return     |  | 2            |  | 2       |  |  |  |
| Ceiling Load                    |  | 0.01   |  | -0.01 |                                       | 0            |  | 0.02        |  | 0                         |  | -0.01         |  | 0           |                                   | 0            |  | Exhaust    |  | 0            |  | 0       |  |  |  |
| Ventilation Load                |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | Rm Exh     |  | 0            |  | 0       |  |  |  |
| Adj Air Trans Heat              |  | 0      |  | 0.00  |                                       | 0            |  | 0           |  | 0                         |  | 0             |  | 0           |                                   | 0            |  | Auxil      |  | 0            |  | 0       |  |  |  |
| Dehumid. Ov Sizing              |  |        |  |       |                                       |              |  |             |  | Dehumid. Ov Sizing        |  |               |  |             |                                   |              |  |            |  | % OA         |  |         |  |  |  |
| OvUndr Sizing                   |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | Lps/m²     |  | 0.24         |  | 0.24    |  |  |  |
| Exhaust Heat                    |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | Lps/kW     |  | 35.62        |  | 0.24    |  |  |  |
| Sup. Fan Heat                   |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |            |  |              |  |         |  |  |  |
| Ret. Fan Heat                   |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |            |  |              |  |         |  |  |  |
| Duct Heat PkUp                  |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  | m²/kW      |  | 148.69       |  | -2.51   |  |  |  |
| Reheat at Design                |  | 0.00   |  | 0.00  |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.05        |                                   | 0            |  | W/m²       |  | 6.72         |  | -2.51   |  |  |  |
| Grand Total ==>                 |  | 0.01   |  | 0.04  |                                       | 100.00       |  | 0.02        |  | 100.00                    |  | -0.01         |  | -0.02       |                                   | 100.00       |  | No. People |  | 0            |  | 0       |  |  |  |

| COOLING COIL SELECTION |  |           |  |              |  |               |  |               |  | HEATING COIL SELECTION |  |              |  |      |  |
|------------------------|--|-----------|--|--------------|--|---------------|--|---------------|--|------------------------|--|--------------|--|------|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter DBWB/Hr |  | Leave DBWB/Hr |  | Capacity               |  | Coil Airflow |  | Lvg  |  |
| kW                     |  | kW        |  | L/s          |  | °C            |  | °C            |  | kW                     |  | L/s          |  | °C   |  |
| Main Clg               |  | 0.05      |  | 2            |  | 24.5          |  | 13.9          |  | 7                      |  | 2            |  | 20.8 |  |
| Aux Clg                |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 35                     |  | 0            |  | 0.0  |  |
| Opt Vent               |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0                      |  | 0            |  | 0.0  |  |
| Total                  |  | 0.05      |  | 0            |  | 0.0           |  | 0.0           |  | 7                      |  | 0            |  | 0.0  |  |



## Room Checksums

By GOCSA

## FC0101 06 CONSULTA SUPERFICIE V 1/20

| COOLING COIL PEAK                   |       |             |              | CLG SPACE PEAK |               |             |            | HEATING COIL PEAK     |          |            |         | TEMPERATURES           |              |      |  |
|-------------------------------------|-------|-------------|--------------|----------------|---------------|-------------|------------|-----------------------|----------|------------|---------|------------------------|--------------|------|--|
| Peaked at Time: Mo/Hr: 7 / 2        |       |             |              | Mo/Hr: 7 / 18  |               |             |            | Mo/Hr: Heating Design |          |            |         |                        |              |      |  |
| Outside Air: OADB/WB/HR: 19 / 9 / 4 |       |             |              | OADB: 32       |               |             |            | OADB: -5              |          |            |         |                        |              |      |  |
| Sens. + Lat.                        | Space | Plenum      | Net          | Percent        | Space         | Percent     | Space Peak | Coil Peak             | Percent  | SADB       | Cooling | Heating                |              |      |  |
| kW                                  | kW    | Sens. + Lat | Total        | Of Total       | Sensible      | Of Total    | Space Sens | Tot Sens              | Of Total | Plenum     |         |                        |              |      |  |
|                                     |       | kW          | kW           | (%)            | kW            | (%)         | kW         | kW                    | (%)      | Return     |         |                        |              |      |  |
| Envelope Loads                      |       |             |              |                |               |             |            |                       |          |            |         | Fn MtrTD               | 0.0          | 0.0  |  |
| Skylite Solar                       | 0.00  | 0.00        | 0.00         | 0              | 0.00          | 0           | 0.00       | 0.00                  | 0        | Fn BidTD   | 0.0     | 0.0                    |              |      |  |
| Skylite Cond                        | 0.00  | 0.00        | 0.00         | 0              | 0.00          | 0           | 0.00       | 0.00                  | 0        | Fn Frict   | 0.0     | 0.0                    |              |      |  |
| Roof Cond                           | 0.00  | 0.08        | 0.08         | 0              | 0.00          | 0           | 0.00       | -0.11                 | 0        |            |         |                        |              |      |  |
| Glass Solar                         | 0.00  | 0.00        | 0.00         | 0              | 0.00          | 0           | 0.00       | 0.00                  | 0        |            |         |                        |              |      |  |
| Glass Cond                          | 0.00  | 0.00        | 0.00         | 0              | 0.00          | 0           | 0.00       | 0.00                  | 0        |            |         |                        |              |      |  |
| Wall Cond                           | 0.00  | 0.00        | 0.00         | 0              | 0.00          | 0           | 0.00       | 0.00                  | 0        |            |         |                        |              |      |  |
| Partition                           | 0.00  | 0.00        | 0.00         | 0              | 0.00          | 0           | 0.00       | 0.00                  | 0        |            |         |                        |              |      |  |
| Exposed Floor                       | 0.00  | 0.00        | 0.00         | 0              | 0.00          | 0           | 0.00       | 0.00                  | 0        |            |         |                        |              |      |  |
| Infiltration                        | 0.00  | 0.00        | 0.00         | 0              | 0.00          | 0           | 0.00       | 0.00                  | 0        |            |         |                        |              |      |  |
| Sub Total ==>                       | 0.00  | 0.08        | 0.08         | 0              | 0.00          | 0           | 0.00       | -0.11                 | 0        |            |         |                        |              |      |  |
| Internal Loads                      |       |             |              |                |               |             |            |                       |          |            |         |                        |              |      |  |
| Lights                              | 0.10  | 0.02        | 0.12         | 0              | 0.10          | 0           | 0.00       | 0.00                  | 0        | Vent       | Cooling | Heating                |              |      |  |
| People                              | 0.26  | 0.00        | 0.26         | 0              | 0.15          | 0           | 0.00       | 0.00                  | 0        | Infil      | 0       | 0                      |              |      |  |
| Misc                                | 0.35  | 0.00        | 0.35         | 0              | 0.35          | 0           | 0.00       | 0.00                  | 0        | Supply     | 56      | 56                     |              |      |  |
| Sub Total ==>                       | 0.71  | 0.02        | 0.73         | 0              | 0.60          | 0           | 0.00       | 0.00                  | 0        | MinStop/Rh | 0       | 0                      |              |      |  |
|                                     |       |             |              |                |               |             |            |                       |          | Return     | 56      | 56                     |              |      |  |
|                                     |       |             |              |                |               |             |            |                       |          | Exhaust    | 0       | 0                      |              |      |  |
|                                     |       |             |              |                |               |             |            |                       |          | Rm Exh     | 0       | 0                      |              |      |  |
|                                     |       |             |              |                |               |             |            |                       |          | Auxil      | 0       | 0                      |              |      |  |
| ENGINEERING CKS                     |       |             |              |                |               |             |            |                       |          |            |         |                        |              |      |  |
| Ceiling Load                        | 0.01  | -0.01       | 0.00         | 0              | 0.03          | 0           | -0.02      | 0                     | 0        | % OA       | Cooling | Heating                |              |      |  |
| Ventilation Load                    | 0.00  | 0.00        | 0.00         | 0              | 0.00          | 0           | 0.00       | 0.00                  | 0        | Lps/m²     | 5.01    | 5.01                   |              |      |  |
| Adj Air Trans Heat                  | 0     | 0.00        | 0            | 0              | 0             | 0           | 0          | 0                     | 0        | Lps/kW     | 69.02   |                        |              |      |  |
| Dehumid. Ov Sizing                  |       | 0           | 0            | 0              |               | 0           | 0.00       | 0.00                  | 0        | m²/kW      | 13.79   | -9.13                  |              |      |  |
| Ov/Undr Sizing                      | 0.00  | 0.00        | 0.00         | 0              | 0.00          | 0           | 0.00       | 0.00                  | 0        | W/m²       | 72.49   |                        |              |      |  |
| Exhaust Heat                        |       | 0.00        | 0.00         | 0              |               | 0           | 0.00       | 0.00                  | 0        | No. People | 2       |                        |              |      |  |
| Sup. Fan Heat                       |       | 0.00        | 0.00         | 0              |               | 0           | 0.00       | 0.00                  | 0        |            |         |                        |              |      |  |
| Ret. Fan Heat                       |       | 0.00        | 0.00         | 0              |               | 0           | 0.00       | 0.00                  | 0        |            |         |                        |              |      |  |
| Duct Heat PkUp                      |       | 0.00        | 0.00         | 0              |               | 0           | 0.00       | 0.00                  | 0        |            |         |                        |              |      |  |
| Reheat at Design                    |       | 0.00        | 0.00         | 0              |               | 0           | 0.01       | 0.01                  | 0        |            |         |                        |              |      |  |
| Grand Total ==>                     | 0.72  | 0.09        | 0.81         | 100.00         | 0.63          | 100.00      | -0.02      | -0.10                 | 100.00   |            |         |                        |              |      |  |
| COOLING COIL SELECTION              |       |             |              |                |               |             |            |                       |          |            |         | HEATING COIL SELECTION |              |      |  |
| Total Capacity                      | kW    | Sens Cap.   | Coil Airflow | Enter DBWB/HR  | Leave DBWB/HR | Gross Total | Glass      |                       |          |            |         | Capacity               | Coil Airflow | Ent  |  |
|                                     |       | kW          | L/s          | °C             | °C            | m²          | (%)        |                       |          |            |         | kW                     | L/s          | °C   |  |
| Main Clg                            | 0.81  | 0.69        | 56           | 24.5           | 17.0          | 11          | Floor      |                       |          |            |         | -0.1                   | 56           | 20.8 |  |
| Aux Clg                             | 0.00  | 0.00        | 0            | 0.0            | 0.0           | 42          | Part       |                       |          |            |         | 0.0                    | 0            | 0.0  |  |
| Opt Vent                            | 0.00  | 0.00        | 0            | 0.0            | 0.0           | 0           | ExFlr      |                       |          |            |         | 0.0                    | 0            | 0.0  |  |
|                                     |       |             |              |                |               | 11          | Roof       |                       |          |            |         | 0.0                    | 0            | 0.0  |  |
|                                     |       |             |              |                |               | 0           | Wall       |                       |          |            |         | 0.0                    | 0            | 0.0  |  |
| Total                               | 0.81  |             |              |                |               |             |            |                       |          |            |         | 0.0                    | 0            | 0.0  |  |
|                                     |       |             |              |                |               |             |            |                       |          |            |         | 0.0                    | 0            | 0.0  |  |
|                                     |       |             |              |                |               |             |            |                       |          |            |         | -0.1                   |              |      |  |



## Room Checksums

Bv GOCSA

## FC0101 07 CONSULTA SUPERFICIE V 1/20

[illegible]



Room Checksums

By GOCSA

FC0101 08 CONSULTA SUPERFICIE V 1/20

| COOLING COIL PEAK  |  |       |        |       |                         |          |          |         |            | CLG SPACE PEAK     |           |         |   |       |  |       |   |       |  | HEATING COIL PEAK |   |       |  |       |          |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|--------------------|--|-------|--------|-------|-------------------------|----------|----------|---------|------------|--------------------|-----------|---------|---|-------|--|-------|---|-------|--|-------------------|---|-------|--|-------|----------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |       |        |       | Mo/Hr: 7 / 14           |          |          |         |            | Mo/Hr: 7 / 14      |           |         |   |       | Mo/Hr: Heating Design  |       |   |       |  | Cooling           |   |       |  |       | Heating  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |       |        |       | OADBWB/HR: 36 / 21 / 11 |          |          |         |            | OADB: 36           |           |         |   |       | OADB: -5   |       |   |       |  | SADB              |   |       |  |       | Plenum   |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  | Space | Plenum | Net   | Percent                 | Space    |          | Percent | Space Peak |                    | Coil Peak | Percent | SADB <th colspan="2">Plenum<th colspan="2">Return<th colspan="2">Ret/OA<th colspan="2">Fn MtrTD<th colspan="2">Fn BidTD<th colspan="2">Fn Frict</th></th></th></th></th></th> |       | Plenum <th colspan="2">Return<th colspan="2">Ret/OA<th colspan="2">Fn MtrTD<th colspan="2">Fn BidTD<th colspan="2">Fn Frict</th></th></th></th></th> |       | Return <th colspan="2">Ret/OA<th colspan="2">Fn MtrTD<th colspan="2">Fn BidTD<th colspan="2">Fn Frict</th></th></th></th> |       | Ret/OA <th colspan="2">Fn MtrTD<th colspan="2">Fn BidTD<th colspan="2">Fn Frict</th></th></th> |                   | Fn MtrTD <th colspan="2">Fn BidTD<th colspan="2">Fn Frict</th></th> |       | Fn BidTD <th colspan="2">Fn Frict</th> |       | Fn Frict |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| kW                 |  | kW    | kW     | Total | Of Total                | Sensible | Of Total | (%)     | kW         | kW                 | Tot Sens  | kW      | (%)   | kW    | kW   | kW    | kW  | kW    | kW   | kW                | kW  | kW    | kW                                     | kW    | kW       |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |       |        |       |                         |          |          |         |            | Envelope Loads     |           |         |   |       |  |       |   |       |  |                   |   |       |  |       |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | 0       | 0.00       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | 0       | 0.00       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  | 0.00  | 0.05   | 0.05  | 4                       | 0.00     | 4        | 36      | 0.36       | 0.00               | -0.10     | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  | 0.36  | 0.00   | 0.36  | 31                      | 0.02     | 31       | 2       | 0.02       | 0.36               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  | 0.02  | 0.00   | 0.02  | 2                       | 0.02     | 2        | 2       | 0.02       | 0.02               | 0.00      | 0       | 0   | -0.09 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  | 0.02  | 0.00   | 0.02  | 2                       | 0.02     | 2        | 2       | 0.02       | -0.09              | 0.00      | 0       | 0   | -0.09 | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Partition          |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | 0       | 0.00       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | 0       | 0.00       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Infiltration       |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | 0       | 0.00       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  | 0.40  | 0.05   | 0.45  | 38                      | 0.40     | 38       | 40      | 0.40       | -0.18              | -0.30     | 0       | 0   | -0.18 | -0.30  | -0.30 | -0.30   | -0.30 | -0.30  | -0.30             | -0.30   | -0.30 | -0.30                                  | -0.30 |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |       |        |       |                         |          |          |         |            | Internal Loads     |           |         |   |       |  |       |   |       |  |                   |   |       |  |       |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Lights             |  | 0.09  | 0.02   | 0.11  | 9                       | 0.09     | 9        | 9       | 0.09       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| People             |  | 0.26  | 0.00   | 0.26  | 22                      | 0.15     | 22       | 15      | 0.15       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Misc               |  | 0.35  | 0.00   | 0.35  | 30                      | 0.35     | 30       | 35      | 0.35       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  | 0.70  | 0.02   | 0.72  | 62                      | 0.59     | 62       | 58      | 0.59       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |       |        |       |                         |          |          |         |            | Ceiling Load       |           |         |   |       |  |       |   |       |  |                   |   |       |  |       |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  | 0.02  | -0.02  | 0.00  | 0                       | 0.02     | 0        | 2       | 0.02       | -0.02              | 0         | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  | 0     | 0.00   | 0.00  | 0                       | 0        | 0        | 0       | 0          | 0                  | 0         | 0       | 0   | 0     | 0  | 0     | 0   | 0     | 0  | 0                 | 0   | 0     | 0                                      | 0     |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |       |        |       |                         |          |          |         |            | Dehumid. Ov Sizing |           |         |   |       |  |       |   |       |  |                   |   |       |  |       |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | 0       | 0.00       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | 0       | 0.00       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | 0       | 0.00       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | 0       | 0.00       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Duct Heat PkUp     |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | 0       | 0.00       | 0.00               | 0.00      | 0       | 0   | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00              | 0.00  | 0.00  | 0.00                                   | 0.00  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  | 0.00  | 0.00   | 0.00  | 0                       | 0.00     | 0        | 0       | 0.00       | 0.00               | -0.04     | 0       | 0   | 0.00  | 0.00   | -0.04 | -0.04   | -0.04 | -0.04  | -0.04             | -0.04   | -0.04 | -0.04                                  | -0.04 |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  | 1.12  | 0.05   | 1.17  | 100.00                  | 1.01     | 100.00   | 100.00  | 1.01       | -0.20              | -0.34     | 100.00  | 100.00  |       |  |       |   |       |  |                   |   |       |  |       |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |           |  |              |  |               |  |               |  | AREAS       |  |       |  |              | HEATING COIL SELECTION |          |  |      |  |
|------------------------|--|-----------|--|--------------|--|---------------|--|---------------|--|-------------|--|-------|--|--------------|------------------------|----------|--|------|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter DBWB/HR |  | Leave DBWB/HR |  | Gross Total |  | Glass |  | Coil Airflow |                        | Capacity |  | Lvg  |  |
| kW                     |  | kW        |  | L/s          |  | °C            |  | °C            |  | m²          |  | %     |  | L/s          |                        | kW       |  | °C   |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 41          |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0           |  |       |  | 0            |                        | 0.0      |  | 0.0  |  |
| 1.18                   |  | 1.06      |  | 101          |  | 25.3          |  | 15.2          |  | 10          |  |       |  | 101          |                        | -0.3     |  | 23.8 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  |             |  |       |  |              |                        |          |  |      |  |



FC0101 09 CONSULTA SUPERFICIE V 1/20

| COOLING COIL PEAK  |              |        |    |           |                       |                |                  |                    |       | CLG SPACE PEAK        |                    |                  |       |            |                       |    |    |  |  | HEATING COIL PEAK |  |  |  |  |  |  |  |  |  | TEMPERATURES |  |  |  |  |
|--------------------|--------------|--------|----|-----------|-----------------------|----------------|------------------|--------------------|-------|-----------------------|--------------------|------------------|-------|------------|-----------------------|----|----|--|--|-------------------|--|--|--|--|--|--|--|--|--|--------------|--|--|--|--|
| Peaked at Time:    |              |        |    |           | Mo/Hr: 7 / 2          |                |                  |                    |       | Mo/Hr: 7 / 18         |                    |                  |       |            | Mo/Hr: Heating Design |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Outside Air:       |              |        |    |           | OADBWB/HR: 19 / 9 / 4 |                |                  |                    |       | OADB: 32              |                    |                  |       |            | OADB: -5              |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Space              |              | Plenum |    | Net Total | Percent Of Total      | Space Sensible | Percent Of Total | Envelope Loads     |       | Space Peak Space Sens | Coil Peak Tot Sens | Percent Of Total | SADB  |            | Heating               |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Sens. + Lat.       | Sens. + Lat. | kW     | kW |           |                       |                |                  | kW                 | (%)   |                       |                    |                  | kW    | (%)        | kW                    | °C | °C |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Envelope Loads     |              |        |    |           |                       |                |                  |                    |       |                       |                    |                  |       |            |                       |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Skylite Solar      |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | Skylite Solar      | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 14.2       | 22.4                  |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Skylite Cond       |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | Skylite Cond       | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 24.5       | 20.8                  |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Roof Cond          |              | 0.00   |    | 0.08      | 0                     | 0.00           | 0                | Roof Cond          | 0.00  | 0.00                  | 0                  | 0                | -0.11 | 24.5       | 20.8                  |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Glass Solar        |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | Glass Solar        | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 24.5       | 20.8                  |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Glass Cond         |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | Glass Cond         | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 0.0        | 0.0                   |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Wall Cond          |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | Wall Cond          | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 0.0        | 0.0                   |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Partition          |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | Partition          | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 0.0        | 0.0                   |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Exposed Floor      |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | Exposed Floor      | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 0.0        | 0.0                   |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Infiltration       |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | Infiltration       | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 0.0        | 0.0                   |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Sub Total ==>      |              | 0.00   |    | 0.08      | 0                     | 0.00           | 0                | Sub Total ==>      | 0.00  | 0.00                  | 0                  | 0                | -0.11 | 57         | 57                    |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Internal Loads     |              |        |    |           |                       |                |                  |                    |       |                       |                    |                  |       |            |                       |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Lights             |              | 0.10   |    | 0.13      | 0                     | 0.10           | 0                | Lights             | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 0          | 0                     |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| People             |              | 0.26   |    | 0.26      | 0                     | 0.15           | 0                | People             | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 0          | 0                     |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Misc               |              | 0.35   |    | 0.35      | 0                     | 0.35           | 0                | Misc               | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 0          | 0                     |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Sub Total ==>      |              | 0.71   |    | 0.74      | 0                     | 0.60           | 0                | Sub Total ==>      | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 0          | 0                     |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Engineering CKS    |              |        |    |           |                       |                |                  |                    |       |                       |                    |                  |       |            |                       |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Ceiling Load       |              | 0.01   |    | -0.01     | 0                     | 0.04           | 0                | Ceiling Load       | -0.03 | 0                     | 0                  | 0                | 0.00  | 0.0        | 0.0                   |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Ventilation Load   |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | Ventilation Load   | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 4.89       | 4.89                  |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Adj Air Trans Heat |              | 0      |    | 0         | 0                     | 0              | 0                | Adj Air Trans Heat | 0     | 0                     | 0                  | 0                | 0.00  | 69.06      | 69.06                 |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Dehumid. Ov Sizing |              | 0.00   |    | 0         | 0                     | 0.00           | 0                | Ov/Undr Sizing     | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 14.11      | 14.11                 |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Exhaust Heat       |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | Exhaust Heat       | 0.00  | 0.00                  | 0                  | 0                | 0.00  | 70.83      | 70.83                 |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Sup. Fan Heat      |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | OA Preheat Diff.   | 0.00  | 0.00                  | 0                  | 0                | 0.00  |            |                       |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Ret. Fan Heat      |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | RA Preheat Diff.   | 0.00  | 0.00                  | 0                  | 0                | 0.00  |            |                       |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Duct Heat PkUp     |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | Additional Reheat  | 0.00  | 0.00                  | 0                  | 0                | 0.00  |            |                       |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Reheat at Design   |              | 0.00   |    | 0.00      | 0                     | 0.00           | 0                | System Plenum Heat | 0.01  | 0.01                  | 0                  | 0                | 0.00  |            |                       |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |
| Grand Total ==>    |              | 0.72   |    | 0.10      | 0.82                  | 100.00         | 100.00           | Grand Total ==>    | -0.03 | -0.10                 | 100.00             | 100.00           |       | No. People | 2                     |    |    |  |  |                   |  |  |  |  |  |  |  |  |  |              |  |  |  |  |

| COOLING COIL SELECTION |  |           |  |              |  |               |  |               |  | HEATING COIL SELECTION |  |              |  |      |  |  |  |  |  |
|------------------------|--|-----------|--|--------------|--|---------------|--|---------------|--|------------------------|--|--------------|--|------|--|--|--|--|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter DBWB/HR |  | Leave DBWB/HR |  | Capacity               |  | Coil Airflow |  | Lvg  |  |  |  |  |  |
| kW                     |  | kW        |  | L/s          |  | °C            |  | °C            |  | kW                     |  | L/s          |  | °C   |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.82                   |  | 0.70      |  | 57           |  | 24.5          |  | 14.2          |  | -0.1                   |  | 57           |  | 22.4 |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0                    |  | 0            |  | 0.0  |  |  |  |  |  |
| 0.8                    |  |           |  |              |  |               |  |               |  |                        |  |              |  |      |  |  |  |  |  |



Room Checksums

By GOCSA

FC0101 10 SALA POLIVALENTE I V 1/20

| COOLING COIL PEAK               |  |        |  |      |                                       |              |  |             |  | CLG SPACE PEAK            |  |               |  |             | HEATING COIL PEAK                 |              |  |                  |  | TEMPERATURES           |  |  |  |  |
|---------------------------------|--|--------|--|------|---------------------------------------|--------------|--|-------------|--|---------------------------|--|---------------|--|-------------|-----------------------------------|--------------|--|------------------|--|------------------------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |        |  |      | Mo/Hr: 7 / 2<br>OADBWB/Hr: 19 / 9 / 4 |              |  |             |  | Mo/Hr: 7 / 18<br>OADB: 32 |  |               |  |             | Mo/Hr: Heating Design<br>OADB: -5 |              |  |                  |  |                        |  |  |  |  |
| Sens. + Lat.                    |  | Plenum |  | Net  |                                       | Percent      |  | Space       |  | Percent                   |  | Space Peak    |  | Coil Peak   |                                   | Percent      |  |                  |  |                        |  |  |  |  |
| kW                              |  | kW     |  | kW   |                                       | Of Total (%) |  | Sensible kW |  | Of Total (%)              |  | Space Sens kW |  | Tot Sens kW |                                   | Of Total (%) |  |                  |  |                        |  |  |  |  |
| Envelope Loads                  |  |        |  |      |                                       |              |  |             |  | Envelope Loads            |  |               |  |             |                                   |              |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.07   |  | 0.07 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | -0.11       |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.07   |  | 0.07 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | -0.11       |                                   | 0            |  |                  |  |                        |  |  |  |  |
| Internal Loads                  |  |        |  |      |                                       |              |  |             |  | Internal Loads            |  |               |  |             |                                   |              |  |                  |  |                        |  |  |  |  |
| 0.09                            |  | 0.02   |  | 0.11 |                                       | 0            |  | 0.09        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.26                            |  | 0.00   |  | 0.26 |                                       | 0            |  | 0.15        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.35                            |  | 0.00   |  | 0.35 |                                       | 0            |  | 0.35        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.70                            |  | 0.02   |  | 0.72 |                                       | 0            |  | 0.59        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| Ceiling Load                    |  |        |  |      |                                       |              |  |             |  | Ceiling Load              |  |               |  |             |                                   |              |  |                  |  |                        |  |  |  |  |
| 0.01                            |  | -0.01  |  | 0.00 |                                       | 0            |  | 0.03        |  | 0                         |  | -0.02         |  | 0           |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0                               |  | 0.00   |  | 0    |                                       | 0            |  | 0           |  | 0                         |  | 0             |  | 0           |                                   | 0            |  |                  |  |                        |  |  |  |  |
| Dehumid. Ov Sizing              |  |        |  |      |                                       |              |  |             |  | Dehumid. Ov Sizing        |  |               |  |             |                                   |              |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0.00 |                                       | 0            |  | 0.00        |  | 0                         |  | 0.00          |  | 0.00        |                                   | 0            |  |                  |  |                        |  |  |  |  |
| Reheat at Design                |  |        |  |      |                                       |              |  |             |  | Reheat at Design          |  |               |  |             |                                   |              |  |                  |  |                        |  |  |  |  |
| 0.71                            |  | 0.08   |  | 0.79 |                                       | 100.00       |  | 0.62        |  | 100.00                    |  | -0.02         |  | -0.10       |                                   | 100.00       |  |                  |  |                        |  |  |  |  |
| Grand Total ==>                 |  |        |  |      |                                       |              |  |             |  | Grand Total ==>           |  |               |  |             |                                   |              |  |                  |  |                        |  |  |  |  |
|                                 |  |        |  |      |                                       |              |  |             |  |                           |  |               |  |             |                                   |              |  |                  |  |                        |  |  |  |  |
| Total Capacity kW               |  |        |  |      |                                       |              |  |             |  | Gross Total               |  |               |  |             |                                   |              |  |                  |  | HEATING COIL SELECTION |  |  |  |  |
| 0.80                            |  | 0.69   |  | 56   |                                       | 24.5         |  | 17.0        |  | 10.1                      |  | 14.2          |  | 12.5        |                                   | 9.2          |  | Capacity kW      |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0    |                                       | 0.0          |  | 0.0         |  | 0.0                       |  | 0.0           |  | 0.0         |                                   | 0.0          |  | Coil Airflow L/s |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0    |                                       | 0.0          |  | 0.0         |  | 0.0                       |  | 0.0           |  | 0.0         |                                   | 0.0          |  | Lvg °C           |  |                        |  |  |  |  |
| 0.80                            |  | 0.69   |  | 56   |                                       | 24.5         |  | 17.0        |  | 10.1                      |  | 14.2          |  | 12.5        |                                   | 9.2          |  | Ent °C           |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0    |                                       | 0.0          |  | 0.0         |  | 0.0                       |  | 0.0           |  | 0.0         |                                   | 0.0          |  | Main Htg         |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0    |                                       | 0.0          |  | 0.0         |  | 0.0                       |  | 0.0           |  | 0.0         |                                   | 0.0          |  | Aux Htg          |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0    |                                       | 0.0          |  | 0.0         |  | 0.0                       |  | 0.0           |  | 0.0         |                                   | 0.0          |  | Preheat          |  |                        |  |  |  |  |
| 0.80                            |  | 0.69   |  | 56   |                                       | 24.5         |  | 17.0        |  | 10.1                      |  | 14.2          |  | 12.5        |                                   | 9.2          |  | Humidif          |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0    |                                       | 0.0          |  | 0.0         |  | 0.0                       |  | 0.0           |  | 0.0         |                                   | 0.0          |  | Opt Vent         |  |                        |  |  |  |  |
| 0.00                            |  | 0.00   |  | 0    |                                       | 0.0          |  | 0.0         |  | 0.0                       |  | 0.0           |  | 0.0         |                                   | 0.0          |  | Total            |  |                        |  |  |  |  |
| 0.80                            |  | 0.69   |  | 56   |                                       | 24.5         |  | 17.0        |  | 10.1                      |  | 14.2          |  | 12.5        |                                   | 9.2          |  | -0.1             |  |                        |  |  |  |  |



## Room Checksums

By GOCSA

FC0101 11 SALA POLIVALENTE II V 1/20

| COOLING COIL PEAK            |  |                    |  |           |  |                |  |                   |  | CLG SPACE PEAK                            |  |                    |  | HEATING COIL PEAK                 |  |             |  | TEMPERATURES     |  |         |  |
|------------------------------|--|--------------------|--|-----------|--|----------------|--|-------------------|--|---|--|--------------------|--|-----------------------------------|--|-------------|--|------------------|--|---------|--|
| Peaked at Time: Outside Air: |  |                    |  |           |  |                |  |                   |  | Mo/Hr: 7 / 14<br>OADB/WB/HR: 36 / 21 / 11 |  |                    |  | Mo/Hr: Heating Design<br>OADB: -5 |  |             |  |                  |  |         |  |
| Space Sens. + Lat.           |  | Plenum Sens. + Lat |  | Net Total |  | Space Sensible |  | Percent Of Total  |  | Space Sens                                |  | Coil Peak Tot Sens |  | Percent Of Total                  |  | SADB        |  | Cooling          |  | Heating |  |
| kW                           |  | kW                 |  | kW        |  | kW             |  | %                 |  | kW  |  | kW                 |  | %                                 |  |             |  |                  |  |         |  |
| Envelope Loads               |  |                    |  |           |  |                |  |                   |  |   |  |                    |  |                                   |  |             |  |                  |  |         |  |
| Skylite Solar                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                 |  | 0.00                                      |  | 0.00               |  | 0                                 |  | 0.00        |  | 15.2             |  | 23.8    |  |
| Skylite Cond                 |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                 |  | 0.00                                      |  | 0.00               |  | 0                                 |  | 0.00        |  | 25.3             |  | 20.8    |  |
| Roof Cond                    |  | 0.00               |  | 0.04      |  | 0.04           |  | 3                 |  | 0.00                                      |  | 0.00               |  | 0                                 |  | 0.00        |  | 25.3             |  | 20.8    |  |
| Glass Solar                  |  | 0.36               |  | 0.00      |  | 0.36           |  | 31                |  | 0.36                                      |  | 0.00               |  | 36                                |  | 0.00        |  | 25.3             |  | 20.8    |  |
| Glass Cond                   |  | 0.02               |  | 0.00      |  | 0.02           |  | 2                 |  | 0.02                                      |  | 0.00               |  | 2                                 |  | -0.09       |  | 25.3             |  | 20.8    |  |
| Wall Cond                    |  | 0.02               |  | 0.00      |  | 0.02           |  | 2                 |  | 0.02                                      |  | 0.00               |  | 2                                 |  | -0.11       |  | 0.0              |  | 0.0     |  |
| Partition                    |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                 |  | 0.00                                      |  | 0.00               |  | 0                                 |  | 0.00        |  | 0.0              |  | 0.0     |  |
| Exposed Floor                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                 |  | 0.00                                      |  | 0.00               |  | 0                                 |  | 0.00        |  | 0.0              |  | 0.0     |  |
| Infiltration                 |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                 |  | 0.00                                      |  | 0.00               |  | 0                                 |  | 0.00        |  | 0.0              |  | 0.0     |  |
| Sub Total ==>                |  | 0.40               |  | 0.04      |  | 0.44           |  | 38                |  | 0.40                                      |  | -0.18              |  | 40                                |  | -0.30       |  |                  |  |         |  |
| Internal Loads               |  |                    |  |           |  |                |  |                   |  |   |  |                    |  |                                   |  |             |  |                  |  |         |  |
| Lights                       |  | 0.09               |  | 0.02      |  | 0.11           |  | 9                 |  | 0.09                                      |  | 0.00               |  | 9                                 |  | 0.00        |  |                  |  |         |  |
| People                       |  | 0.26               |  | 0.00      |  | 0.26           |  | 22                |  | 0.15                                      |  | 0.00               |  | 15                                |  | 0.00        |  |                  |  |         |  |
| Misc                         |  | 0.35               |  | 0.00      |  | 0.35           |  | 30                |  | 0.35                                      |  | 0.00               |  | 35                                |  | 0.00        |  |                  |  |         |  |
| Sub Total ==>                |  | 0.70               |  | 0.02      |  | 0.72           |  | 62                |  | 0.59                                      |  | 0.00               |  | 58                                |  | 0.00        |  |                  |  |         |  |
| Ceiling Load                 |  |                    |  |           |  |                |  |                   |  |   |  |                    |  |                                   |  |             |  |                  |  |         |  |
| Ventilation Load             |  | 0.02               |  | -0.02     |  | 0.00           |  | 0                 |  | 0.02                                      |  | -0.02              |  | 2                                 |  | 0.00        |  |                  |  |         |  |
| Adj Air Trans Heat           |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                 |  | 0.00                                      |  | 0.00               |  | 0                                 |  | 0.00        |  |                  |  |         |  |
| Dehumid. Ov Sizing           |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                 |  | 0.00                                      |  | 0.00               |  | 0                                 |  | 0.00        |  |                  |  |         |  |
| Ov/Undr Sizing               |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                 |  | 0.00                                      |  | 0.00               |  | 0                                 |  | 0.00        |  | 10.20            |  | 10.20   |  |
| Exhaust Heat                 |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                 |  | 0.00                                      |  | 0.00               |  | 0                                 |  | 0.00        |  | 85.57            |  |         |  |
| Sup. Fan Heat                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                 |  | 0.00                                      |  | 0.00               |  | 0                                 |  | 0.00        |  |                  |  |         |  |
| Ret. Fan Heat                |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                 |  | 0.00                                      |  | 0.00               |  | 0                                 |  | 0.00        |  |                  |  |         |  |
| Duct Heat PkUp               |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                 |  | 0.00                                      |  | 0.00               |  | 0                                 |  | 0.00        |  | 8.39             |  |         |  |
| Reheat at Design             |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                 |  | 0.00                                      |  | -0.04              |  | 0                                 |  | 0.00        |  | 119.11           |  | -34.59  |  |
| Grand Total ==>              |  | 1.12               |  | 0.04      |  | 1.16           |  | 100.00            |  | 1.01                                      |  | -0.20              |  | 100.00                            |  | -0.34       |  | 2                |  |         |  |
| ENGINEERING CKS              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  |                                   |  |             |  |                  |  |         |  |
| % OA                         |  |                    |  |           |  |                |  |                   |  |   |  | 0.0                |  |                                   |  | 0.0         |  |                  |  | 0.0     |  |
| Lps/m²                       |  |                    |  |           |  |                |  |                   |  |   |  | 10.20              |  |                                   |  | 10.20       |  |                  |  |         |  |
| Lps/kW                       |  |                    |  |           |  |                |  |                   |  |   |  | 85.57              |  |                                   |  | 85.57       |  |                  |  |         |  |
| m²/kW                        |  |                    |  |           |  |                |  |                   |  |   |  | 8.39               |  |                                   |  | 8.39        |  |                  |  |         |  |
| W/m²                         |  |                    |  |           |  |                |  |                   |  |   |  | 119.11             |  |                                   |  | 119.11      |  |                  |  |         |  |
| No. People                   |  |                    |  |           |  |                |  |                   |  |   |  | 2                  |  |                                   |  | 2           |  |                  |  |         |  |
| HEATING COIL SELECTION       |  |                    |  |           |  |                |  |                   |  | HEATING COIL SELECTION                    |  |                    |  |                                   |  |             |  |                  |  |         |  |
| Total Capacity               |  | kW                 |  | Sens Cap. |  | Coil Airflow   |  | Enter DB/WB/HR °C |  | Leave DB/WB/HR °C                         |  | Gross Total        |  | Glass m²                          |  | Capacity kW |  | Coil Airflow L/s |  | Ent °C  |  |
| 1.17                         |  | 1.05               |  | 1.00      |  | 100            |  | 25.3              |  | 17.3                                      |  | 10.1               |  | 10                                |  | -0.3        |  | 100              |  | 20.8    |  |
| 0.00                         |  | 0.00               |  | 0.00      |  | 0              |  | 0.0               |  | 0.0                                       |  | 0.0                |  | 40                                |  | 0.0         |  | 0                |  | 0.0     |  |
| 0.00                         |  | 0.00               |  | 0.00      |  | 0              |  | 0.0               |  | 0.0                                       |  | 0.0                |  | 0                                 |  | 0.0         |  | 0                |  | 0.0     |  |
| Total                        |  | 1.17               |  |           |  |                |  |                   |  |   |  |                    |  | 12                                |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 19                                |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  | 2                                 |  | 0.0         |  | 0                |  | 0.0     |  |
|                              |  |                    |  |           |  |                |  |                   |  |   |  |                    |  |                                   |  |             |  |                  |  |         |  |



Room Checksums

By GOCSA

FC0101 12 ASEO ACCESIBLE EX 4/25

| COOLING COIL PEAK               |  |  |  |  |  |  |  |                           |  | CLG SPACE PEAK |  |                                   |  | HEATING COIL PEAK |  |          |  | TEMPERATURES |  |         |  |            |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|---------------------------|--|----------------|--|-----------------------------------|--|-------------------|--|----------|--|--------------|--|---------|--|------------|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |  |  |  | Mo/Hr: 7 / 18<br>OADB: 32 |  |                |  | Mo/Hr: Heating Design<br>OADB: -5 |  |                   |  | SADB     |  | Cooling      |  | Heating |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  | Plenum   |  | 25.5         |  | 20.8    |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  | Return   |  | 25.5         |  | 20.8    |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  | Ret/OA   |  | 25.5         |  | 20.8    |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  | Fn MtrTD |  | 0.0          |  | 0.0     |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  | Fn BidTD |  | 0.0          |  | 0.0     |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  | Fn Frict |  | 0.0          |  | 0.0     |  |            |  |  |  |
| Envelope Loads                  |  |  |  |  |  |  |  |                           |  | Envelope Loads |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
| Skylite Solar                   |  |  |  |  |  |  |  |                           |  | 0              |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Skylite Cond                    |  |  |  |  |  |  |  |                           |  | 0              |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Roof Cond                       |  |  |  |  |  |  |  |                           |  | 0              |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Glass Solar                     |  |  |  |  |  |  |  |                           |  | 0              |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Glass Cond                      |  |  |  |  |  |  |  |                           |  | 0              |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Wall Cond                       |  |  |  |  |  |  |  |                           |  | 0              |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Partition                       |  |  |  |  |  |  |  |                           |  | 0              |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Exposed Floor                   |  |  |  |  |  |  |  |                           |  | 0              |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Infiltration                    |  |  |  |  |  |  |  |                           |  | 0              |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Sub Total ==>                   |  |  |  |  |  |  |  |                           |  | 0.00           |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Internal Loads                  |  |  |  |  |  |  |  |                           |  | Internal Loads |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
| Lights                          |  |  |  |  |  |  |  |                           |  | 0.00           |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| People                          |  |  |  |  |  |  |  |                           |  | 0.00           |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Misc                            |  |  |  |  |  |  |  |                           |  | 0.00           |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Sub Total ==>                   |  |  |  |  |  |  |  |                           |  | 0.00           |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Ceiling Load                    |  |  |  |  |  |  |  |                           |  | 0.01           |  |                                   |  | -0.01             |  |          |  | 0            |  |         |  | 0          |  |  |  |
| Ventilation Load                |  |  |  |  |  |  |  |                           |  | 0.00           |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Adj Air Trans Heat              |  |  |  |  |  |  |  |                           |  | 0              |  |                                   |  | 0                 |  |          |  | 0            |  |         |  | 0          |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  |  |  |  |                           |  | 0              |  |                                   |  | 0                 |  |          |  | 0            |  |         |  | 0          |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  |  |  |  |                           |  | 0.00           |  |                                   |  | 0.00              |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Exhaust Heat                    |  |  |  |  |  |  |  |                           |  | 0.00           |  |                                   |  | 0                 |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Sup. Fan Heat                   |  |  |  |  |  |  |  |                           |  | 0.00           |  |                                   |  | 0                 |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Ret. Fan Heat                   |  |  |  |  |  |  |  |                           |  | 0.00           |  |                                   |  | 0                 |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Duct Heat PkUp                  |  |  |  |  |  |  |  |                           |  | 0.00           |  |                                   |  | 0                 |  |          |  | 0.00         |  |         |  | 0          |  |  |  |
| Reheat at Design                |  |  |  |  |  |  |  |                           |  | 0.00           |  |                                   |  | -0.01             |  |          |  | -0.01        |  |         |  | -2.52      |  |  |  |
| Grand Total ==>                 |  |  |  |  |  |  |  |                           |  | 0.01           |  |                                   |  | -0.01             |  |          |  | -0.01        |  |         |  | 100.00     |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  | No. People |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  | 0          |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |
|                                 |  |  |  |  |  |  |  |                           |  |                |  |                                   |  |                   |  |          |  |              |  |         |  |            |  |  |  |



Room Checksums

By GOCSA

FC0101 13 CONSULTA GLAUCOMA V 1/20

| COOLING COIL PEAK               |  |  |  |  |                                       |  |  |  |  | CLG SPACE PEAK            |  |  |  |  | HEATING COIL PEAK                 |  |  |  |  | TEMPERATURES                   |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
|---------------------------------|--|--|--|--|---------------------------------------|--|--|--|--|---------------------------|--|--|--|--|-----------------------------------|--|--|--|--|--------------------------------|--|--|--|--|-----------------------------|--|--|--|--|----------------------------|--|--|--|--|--------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 2<br>OADBWB/Hr: 19 / 9 / 4 |  |  |  |  | Mo/Hr: 7 / 18<br>OADB: 32 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB<br>Cooling<br>Heating     |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
|                                 |  |  |  |  |                                       |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Plenum<br>24.5<br>20.8         |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| Space<br>Sens. + Lat.<br>kW     |  |  |  |  | Plenum<br>Sens. + Lat.<br>kW          |  |  |  |  | Net<br>Total<br>kW        |  |  |  |  | Percent<br>Of Total<br>(%)        |  |  |  |  | Space Peak<br>Space Sens<br>kW |  |  |  |  | Coil Peak<br>Tot Sens<br>kW |  |  |  |  | Percent<br>Of Total<br>(%) |  |  |  |  |        |  |  |  |  |
| Envelope Loads                  |  |  |  |  |                                       |  |  |  |  |                           |  |  |  |  | Envelope Loads                    |  |  |  |  |                                |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| Skylite Solar                   |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |        |  |  |  |  |
| Skylite Cond                    |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |        |  |  |  |  |
| Roof Cond                       |  |  |  |  | 0.00                                  |  |  |  |  | 0.07                      |  |  |  |  | 0.07                              |  |  |  |  | 0                              |  |  |  |  | 0.00                        |  |  |  |  | -0.11                      |  |  |  |  | 0      |  |  |  |  |
| Glass Solar                     |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0                              |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Glass Cond                      |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0                              |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Wall Cond                       |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0                              |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Partition                       |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0                              |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Exposed Floor                   |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0                              |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Infiltration                    |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0                              |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.00                                  |  |  |  |  | 0.07                      |  |  |  |  | 0.07                              |  |  |  |  | 0                              |  |  |  |  | 0.00                        |  |  |  |  | -0.11                      |  |  |  |  | 0      |  |  |  |  |
| Internal Loads                  |  |  |  |  |                                       |  |  |  |  |                           |  |  |  |  | Internal Loads                    |  |  |  |  |                                |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| Lights                          |  |  |  |  | 0.10                                  |  |  |  |  | 0.12                      |  |  |  |  | 0                                 |  |  |  |  | 0.10                           |  |  |  |  | 0                           |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| People                          |  |  |  |  | 0.26                                  |  |  |  |  | 0.26                      |  |  |  |  | 0                                 |  |  |  |  | 0.15                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Misc                            |  |  |  |  | 0.35                                  |  |  |  |  | 0.35                      |  |  |  |  | 0                                 |  |  |  |  | 0.35                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.71                                  |  |  |  |  | 0.73                      |  |  |  |  | 0                                 |  |  |  |  | 0.60                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Ceiling Load                    |  |  |  |  | 0.01                                  |  |  |  |  | -0.01                     |  |  |  |  | 0.00                              |  |  |  |  | 0.03                           |  |  |  |  | -0.02                       |  |  |  |  | 0                          |  |  |  |  | 0      |  |  |  |  |
| Ventilation Load                |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | 0                                     |  |  |  |  | 0                         |  |  |  |  | 0                                 |  |  |  |  | 0                              |  |  |  |  | 0                           |  |  |  |  | 0                          |  |  |  |  | 0      |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  |                                       |  |  |  |  | 0                         |  |  |  |  | 0                                 |  |  |  |  |                                |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | 0.00                                  |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Exhaust Heat                    |  |  |  |  |                                       |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  |                                       |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  |                                       |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  |                                       |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0      |  |  |  |  |
| Reheat at Design                |  |  |  |  |                                       |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00                           |  |  |  |  | 0.01                        |  |  |  |  | 0.01                       |  |  |  |  | 0      |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | 0.72                                  |  |  |  |  | 0.08                      |  |  |  |  | 0.80                              |  |  |  |  | 100.00                         |  |  |  |  | -0.02                       |  |  |  |  | -0.10                      |  |  |  |  | 100.00 |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |                 |  |  |  |  | AREAS               |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|------------------------|--|--|--|--|-----------------|--|--|--|--|---------------------|--|--|--|--|------------------------|--|--|--|--|---------------------|--|--|--|--|-------------|--|--|--|--|-------------|--|--|--|--|--------------|--|--|--|--|------|--|--|--|--|-----|--|--|--|--|
| Total Capacity<br>kW   |  |  |  |  | Sens Cap.<br>kW |  |  |  |  | Coil Airflow<br>L/s |  |  |  |  | Enter DBWB/Hr<br>°C    |  |  |  |  | Leave DBWB/Hr<br>°C |  |  |  |  | Gross Total |  |  |  |  | Glass<br>m² |  |  |  |  | Glass<br>(%) |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
| Main Clg               |  |  |  |  | 0.81            |  |  |  |  | 0.69                |  |  |  |  | 56                     |  |  |  |  | 24.5                |  |  |  |  | 17.0        |  |  |  |  | 10.1        |  |  |  |  | 14.2         |  |  |  |  | 12.5 |  |  |  |  | 9.2 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00            |  |  |  |  | 0.00                |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0         |  |  |  |  | 0.0         |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0 |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00            |  |  |  |  | 0.00                |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0         |  |  |  |  | 0.0         |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0 |  |  |  |  |
| Total                  |  |  |  |  | 0.81            |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|                        |  |  |  |  |                 |  |  |  |  |                     |  |  |  |  | </                     |  |  |  |  |                     |  |  |  |  |             |  |  |  |  |             |  |  |  |  |              |  |  |  |  |      |  |  |  |  |     |  |  |  |  |



## Room Checksums

By GOC SA

FC0101 14 CONSULTA GLAUCOMA V 1/20

| COOLING COIL PEAK               |  |                     |  |           |  |                  |  |                |  | CLG SPACE PEAK                         |  |                       |  |                    |  |                  |  |      |  | HEATING COIL PEAK         |  |         |  |  |  |  |  |  |  | TEMPERATURES                      |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|---------------------|--|-----------|--|------------------|--|----------------|--|--|--|-----------------------|--|--------------------|--|------------------|--|------|--|---------------------------|--|---------|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |                     |  |           |  |                  |  |                |  | Mo/Hr: 7 / 2<br>OADB/WB/HR: 19 / 9 / 4 |  |                       |  |                    |  |                  |  |      |  | Mo/Hr: 7 / 18<br>OADB: 32 |  |         |  |  |  |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  |  |  |  |  |  |
| Space Sens. + Lat.              |  | Plenum Sens. + Lat. |  | Net Total |  | Percent Of Total |  | Space Sensible |  | Percent Of Total                       |  | Space Peak Space Sens |  | Coil Peak Tot Sens |  | Percent Of Total |  | SADB |  | Cooling                   |  | Heating |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| kW                              |  | kW                  |  | kW        |  | %                |  | kW             |  | %                                      |  | kW                    |  | kW                 |  | %                |  |      |  |                           |  |         |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Envelope Loads                  |  |                     |  |           |  |                  |  |                |  |  |  |                       |  |                    |  |                  |  |      |  |                           |  |         |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Skylite Solar                   |  | 0.00                |  | 0.00      |  | 0                |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 14.2                      |  | 22.4    |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Skylite Cond                    |  | 0.00                |  | 0.00      |  | 0                |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 24.5                      |  | 20.8    |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Roof Cond                       |  | 0.00                |  | 0.08      |  | 0                |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | -0.11            |  |      |  | 24.5                      |  | 20.8    |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Glass Solar                     |  | 0.00                |  | 0.00      |  | 0                |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 24.5                      |  | 20.8    |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Glass Cond                      |  | 0.00                |  | 0.00      |  | 0                |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 0.0                       |  | 0.0     |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Wall Cond                       |  | 0.00                |  | 0.00      |  | 0                |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 0.0                       |  | 0.0     |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Partition                       |  | 0.00                |  | 0.00      |  | 0                |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 0.0                       |  | 0.0     |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Exposed Floor                   |  | 0.00                |  | 0.00      |  | 0                |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 0                         |  | 0       |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Infiltration                    |  | 0.00                |  | 0.00      |  | 0                |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 0                         |  | 0       |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  | 0.00                |  | 0.08      |  | 0                |  | 0.00           |  | 0                                      |  | 0.00                  |  | -0.11              |  | 0                |  |      |  | 56                        |  | 56      |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Internal Loads                  |  |                     |  |           |  |                  |  |                |  |  |  |                       |  |                    |  |                  |  |      |  |                           |  |         |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Lights                          |  | 0.10                |  | 0.02      |  | 0.12             |  | 0.10           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 0                         |  | 0       |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| People                          |  | 0.26                |  | 0.00      |  | 0.26             |  | 0.15           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 0                         |  | 0       |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Misc                            |  | 0.35                |  | 0.00      |  | 0.35             |  | 0.35           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 0                         |  | 0       |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  | 0.71                |  | 0.02      |  | 0.73             |  | 0.60           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 56                        |  | 56      |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Engineering CKS                 |  |                     |  |           |  |                  |  |                |  |  |  |                       |  |                    |  |                  |  |      |  |                           |  |         |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Ceiling Load                    |  | 0.01                |  | -0.01     |  | 0.00             |  | 0.03           |  | 0                                      |  | -0.02                 |  | 0                  |  | 0                |  |      |  | 0.0                       |  | 0.0     |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Ventilation Load                |  | 0.00                |  | 0.00      |  | 0.00             |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 5.02                      |  | 5.02    |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat              |  | 0                   |  | 0.00      |  | 0                |  | 0              |  | 0                                      |  | 0                     |  | 0                  |  | 0                |  |      |  | 69.01                     |  |         |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing              |  | 0.00                |  | 0.00      |  | 0.00             |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 13.76                     |  | -9.14   |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing                  |  | 0.00                |  | 0.00      |  | 0.00             |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 72.63                     |  |         |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Exhaust Heat                    |  | 0.00                |  | 0.00      |  | 0.00             |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 0.0                       |  | 0.0     |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat                   |  | 0.00                |  | 0.00      |  | 0.00             |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 0.0                       |  | 0.0     |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat                   |  | 0.00                |  | 0.00      |  | 0.00             |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 0.0                       |  | 0.0     |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Duct Heat PkUp                  |  | 0.00                |  | 0.00      |  | 0.00             |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.00               |  | 0                |  |      |  | 0.0                       |  | 0.0     |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Reheat at Design                |  | 0.00                |  | 0.00      |  | 0.00             |  | 0.00           |  | 0                                      |  | 0.00                  |  | 0.01               |  | 0                |  |      |  | 0.0                       |  | 0.0     |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |
| Grand Total ==>                 |  | 0.72                |  | 0.09      |  | 0.81             |  | 0.63           |  | 100.00                                 |  | -0.02                 |  | -0.10              |  | 100.00           |  |      |  | 2                         |  |         |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |           |  |              |  |                |  |                |  | AREAS       |  |           |  | HEATING COIL SELECTION |  |              |  |      |  |
|------------------------|--|-----------|--|--------------|--|----------------|--|----------------|--|-------------|--|-----------|--|------------------------|--|--------------|--|------|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter DB/WB/HR |  | Leave DB/WB/HR |  | Gross Total |  | Glass     |  | Capacity               |  | Coil Airflow |  | Ent  |  |
| kW                     |  | kW        |  | L/s          |  | °C             |  | °C             |  | m²          |  | %         |  | kW                     |  | L/s          |  | °C   |  |
| Main Clg               |  | 0.81      |  | 56           |  | 24.5           |  | 14.2           |  | 11          |  | Floor     |  | -0.1                   |  | 56           |  | 20.8 |  |
| Aux Clg                |  | 0.00      |  | 0            |  | 0.0            |  | 0.0            |  | 44          |  | Part      |  | 0.0                    |  | 0            |  | 0.0  |  |
| Opt Vent               |  | 0.00      |  | 0            |  | 0.0            |  | 0.0            |  | 0           |  | ExFlr     |  | 0.0                    |  | 0            |  | 0.0  |  |
| Total                  |  | 0.81      |  | 0            |  | 0.0            |  | 0.0            |  | 11          |  | Roof Wall |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  | 0           |  |           |  | 0.0                    |  | 0            |  | 0.0  |  |
|                        |  |           |  |              |  |                |  |                |  |             |  |           |  |                        |  |              |  |      |  |



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| COOLING COIL PEAK            |                    |              |                     | CLG SPACE PEAK                     |                  |                |                  | HEATING COIL PEAK              |                    |                  |                  | TEMPERATURES           |         |         |  |
|------------------------------|--------------------|--------------|---------------------|------------------------------------|------------------|----------------|------------------|--------------------------------|--------------------|------------------|------------------|------------------------|---------|---------|--|
| Peaked at Time: Outside Air: |                    |              |                     | Mo/Hr: 7 / 2 OADBWB/HR: 19 / 9 / 4 |                  |                |                  | Mo/Hr: Heating Design OADB: -5 |                    |                  |                  |                        |         |         |  |
| Envelope Loads               | Space Sens. + Lat. |              | Plenum Sens. + Lat. | Net Total                          | Percent Of Total | Space Sensible | Percent Of Total | Space Peak Space Sens          | Coil Peak Tot Sens | Percent Of Total | SADB             | Cooling                |         | Heating |  |
|                              | kW                 | kW           | kW                  | kW                                 | (%)              | kW             | (%)              | kW                             | kW                 | (%)              |                  | Plenum                 | 24.5    | 22.4    |  |
| Skylite Solar                | 0.00               | 0.00         | 0.00                | 0.00                               | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                | Return           | 24.5                   | 20.8    |         |  |
| Skylite Cond                 | 0.00               | 0.00         | 0.00                | 0.00                               | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                | Ret/OA           | 24.5                   | 20.8    |         |  |
| Roof Cond                    | 0.00               | 0.08         | 0.08                | 0.08                               | 0                | 0.00           | 0                | 0.00                           | -0.12              | 0                | Fn MtrTD         | 0.0                    | 0.0     |         |  |
| Glass Solar                  | 0.00               | 0.00         | 0.00                | 0.00                               | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                | Fn BidTD         | 0.0                    | 0.0     |         |  |
| Glass Cond                   | 0.00               | 0.00         | 0.00                | 0.00                               | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                | Fn Frict         | 0.0                    | 0.0     |         |  |
| Wall Cond                    | 0.00               | 0.00         | 0.00                | 0.00                               | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                |                  |                        |         |         |  |
| Partition                    | 0.00               | 0.00         | 0.00                | 0.00                               | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                |                  |                        |         |         |  |
| Exposed Floor                | 0.00               | 0.00         | 0.00                | 0.00                               | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                |                  |                        |         |         |  |
| Infiltration                 | 0.00               | 0.00         | 0.00                | 0.00                               | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                |                  |                        |         |         |  |
| Sub Total ==>                | 0.00               | 0.08         | 0.08                | 0.08                               | 0                | 0.00           | 0                | 0.00                           | -0.12              | 0                |                  |                        |         |         |  |
| Internal Loads               |                    |              |                     | Internal Loads                     |                  |                |                  | AIRFLOWS                       |                    |                  |                  |                        |         |         |  |
| Lights                       | 0.11               | 0.03         | 0.14                | 0.14                               | 0                | 0.11           | 0                | 0.00                           | 0.00               | 0                | Vent             | Cooling                | Heating |         |  |
| People                       | 0.26               |              | 0.26                | 0.26                               | 0                | 0.15           | 0                | 0.00                           | 0.00               | 0                | Infil            | 0                      | 0       |         |  |
| Misc                         | 0.35               | 0.00         | 0.35                | 0.35                               | 0                | 0.35           | 0                | 0.00                           | 0.00               | 0                | Supply           | 58                     | 58      |         |  |
| Sub Total ==>                | 0.72               | 0.03         | 0.75                | 0.75                               | 0                | 0.61           | 0                | 0.00                           | 0.00               | 0                | MinStop/Rh       | 0                      | 0       |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    |                  | Return           | 58                     | 58      |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    |                  | Exhaust          | 0                      | 0       |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    |                  | Rm Exh           | 0                      | 0       |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    |                  | Auxil            | 0                      | 0       |         |  |
| Ceiling Load                 |                    |              |                     | Ceiling Load                       |                  |                |                  | ENGINEERING CKS                |                    |                  |                  |                        |         |         |  |
| Ventilation Load             | 0.01               | -0.01        | 0.00                | 0.00                               | 0                | 0.04           | 0                | -0.03                          | 0                  | 0                | % OA             | Cooling                | Heating |         |  |
| Adj Air Trans Heat           | 0                  | 0.00         | 0.00                | 0.00                               | 0                | 0              | 0                | 0                              | 0                  | 0                | Lps/m²           | 4.62                   | 4.62    |         |  |
| Dehumid. Ov Sizing           |                    |              | 0                   | 0                                  | 0                | 0              | 0                | 0                              | 0                  | 0                | Lps/kW           | 69.19                  |         |         |  |
| Ov/Undr Sizing               | 0.00               |              | 0.00                | 0.00                               | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                | m²/kW            | 14.96                  | -8.60   |         |  |
| Exhaust Heat                 |                    | 0.00         | 0.00                | 0.00                               | 0                |                |                  |                                | 0.00               | 0                | W/m²             | 66.79                  |         |         |  |
| Sup. Fan Heat                |                    |              | 0.00                | 0.00                               | 0                |                |                  |                                | 0.00               | 0                | No. People       | 2                      |         |         |  |
| Ret. Fan Heat                |                    | 0.00         | 0.00                | 0.00                               | 0                |                |                  |                                | 0.00               | 0                |                  |                        |         |         |  |
| Duct Heat Pkup               |                    | 0.00         | 0.00                | 0.00                               | 0                |                |                  |                                | 0.00               | 0                |                  |                        |         |         |  |
| Reheat at Design             |                    |              | 0.00                | 0.00                               | 0                |                |                  |                                | 0.02               | 0                |                  |                        |         |         |  |
| Grand Total ==>              | 0.73               | 0.10         | 0.83                | 0.83                               | 100.00           | 0.65           | 100.00           | -0.03                          | -0.10              | 100.00           |                  |                        |         |         |  |
| COOLING COIL SELECTION       |                    |              |                     |                                    |                  |                |                  |                                |                    |                  |                  | HEATING COIL SELECTION |         |         |  |
| Total Capacity               | Sens Cap.          | Coil Airflow | L/s                 | °C                                 | Enter DB/WB/HR   | °C             | Leave DB/WB/HR   | Gross Total                    | Glass m² (%)       | Capacity kW      | Coil Airflow L/s | Ent °C                 | Lvg °C  |         |  |
| Main Clg                     | 0.84               | 0.72         | 58                  | 24.5                               | 17.0             | 10.1           | 14.3             | 13                             | Floor              | -0.1             | 58               | 20.8                   | 22.4    |         |  |
| Aux Clg                      | 0.00               | 0.00         | 0                   | 0.0                                | 0.0              | 0.0            | 0.0              | 46                             | Part               | 0.0              | 0                | 0.0                    | 0.0     |         |  |
| Opt Vent                     | 0.00               | 0.00         | 0                   | 0.0                                | 0.0              | 0.0            | 0.0              | 0                              | ExFlr              | 0.0              | 0                | 0.0                    | 0.0     |         |  |
| Total                        | 0.84               |              |                     |                                    |                  |                |                  | 13                             | Roof Wall          |                  |                  |                        |         |         |  |
|                              |                    |              |                     |                                    |                  |                |                  | 0                              |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                | 0.0                    | 0.0     |         |  |
|                              |                    |              |                     |                                    |                  |                |                  |                                |                    | 0.0              | 0                |                        |         |         |  |



Room Checksums

By GOCSA

FC0101 16 CONSULTA GLAUCOMA V 1/20

| COOLING COIL PEAK               |  |  |  |  |                                       |  |           |  |              | CLG SPACE PEAK            |                  |  |                |  | HEATING COIL PEAK                 |  |            |  |           | TEMPERATURES           |                  |  |   |  |      |  |      |   |  |  |  |  |
|---------------------------------|--|--|--|--|---------------------------------------|--|-----------|--|--------------|---------------------------|------------------|--|----------------|--|-----------------------------------|--|------------|--|-----------|------------------------|------------------|--|---|--|------|--|------|---|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 2<br>OADBWB/HR: 19 / 9 / 4 |  |           |  |              | Mo/Hr: 7 / 18<br>OADB: 32 |                  |  |                |  | Mo/Hr: Heating Design<br>OADB: -5 |  |            |  |           | SADB<br>14.4<br>22.5   |                  |  |   |  |      |  |      |   |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | Space                                 |  | Plenum    |  | Net Total    |                           | Percent Of Total |  | Space Sensible |  | Percent Of Total                  |  | Space Peak |  | Coil Peak |                        | Percent Of Total |  | Cooling   |  |      |  |      | Heating   |  |  |  |  |
| kW                              |  |  |  |  | kW                                    |  | kW        |  | kW           |                           | %                |  | kW             |  | %                                 |  | kW         |  | kW        |                        | %                |  | 24.5<br>20.8<br>20.8<br>24.5<br>0.0<br>0.0<br>0.0 |  |      |  |      | 24.5<br>20.8<br>20.8<br>24.5<br>0.0<br>0.0<br>0.0 |  |  |  |  |
| Envelope Loads                  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0     |  |      |  |      | 0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0     |  |  |  |  |
| Skylite Solar                   |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Skylite Cond                    |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Roof Cond                       |  |  |  |  | 0.00                                  |  | 0.10      |  | 0.10         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | -0.15     |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Glass Solar                     |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Glass Cond                      |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Wall Cond                       |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Partition                       |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Exposed Floor                   |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Infiltration                    |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.00                                  |  | 0.10      |  | 0.10         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | -0.15     |                        | 0                |  | 0.00  |  |      |  |      | 61<br>0<br>61                                     |  |  |  |  |
| Internal Loads                  |  |  |  |  | 0.13                                  |  | 0.03      |  | 0.16         |                           | 0                |  | 0.13           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 61<br>61  |  |  |  |  |
| Lights                          |  |  |  |  | 0.13                                  |  | 0.03      |  | 0.16         |                           | 0                |  | 0.13           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| People                          |  |  |  |  | 0.26                                  |  | 0.00      |  | 0.26         |                           | 0                |  | 0.15           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Misc                            |  |  |  |  | 0.35                                  |  | 0.00      |  | 0.35         |                           | 0                |  | 0.35           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.74                                  |  | 0.03      |  | 0.77         |                           | 0                |  | 0.63           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Ceiling Load                    |  |  |  |  | 0.01                                  |  | -0.01     |  | 0.00         |                           | 0                |  | 0.05           |  | 0                                 |  | 0.00       |  | -0.03     |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Ventilation Load                |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | 0                                     |  | 0.00      |  | 0            |                           | 0                |  | 0              |  | 0                                 |  | 0          |  | 0         |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.00      |                        | 0                |  | 0.00  |  |      |  |      | 0.00  |  |  |  |  |
| Reheat at Design                |  |  |  |  | 0.00                                  |  | 0.00      |  | 0.00         |                           | 0                |  | 0.00           |  | 0                                 |  | 0.00       |  | 0.03      |                        | 0                |  | 0.00  |  |      |  |      | -7.88   |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | 0.75                                  |  | 0.12      |  | 0.87         |                           | 100.00           |  | 0.68           |  | 100.00                            |  | -0.03      |  | -0.12     |                        | 100.00           |  | No. People<br>2                                   |  |      |  |      |   |  |  |  |  |
|                                 |  |  |  |  |                                       |  |           |  |              | COOLING COIL SELECTION    |                  |  |                |  |                                   |  |            |  |           | HEATING COIL SELECTION |                  |  |   |  |      |  |      |   |  |  |  |  |
| Total Capacity                  |  |  |  |  | kW                                    |  | Sens Cap. |  | Coil Airflow |                           | Enter            |  | DBWB/HR        |  | Leave                             |  | DBWB/HR    |  | Capacity  |                        | Coil Airflow     |  | Ent   |  | Lvg  |  | °C   |   |  |  |  |  |
|                                 |  |  |  |  |                                       |  | kW        |  | L/s          |                           | °C               |  | °C g/kg        |  | °C g/kg                           |  | kW         |  | kW        |                        | L/s              |  | °C  |  | L/s  |  | °C   |   |  |  |  |  |
| Main Clg                        |  |  |  |  | 0.88                                  |  | 0.76      |  | 61           |                           | 24.5             |  | 17.0           |  | 14.4                              |  | 15         |  | -0.1      |                        | 61               |  | 20.8  |  | 22.5 |  | 22.5 |   |  |  |  |  |
| Aux Clg                         |  |  |  |  | 0.00                                  |  | 0.00      |  | 0            |                           | 0.0              |  | 0.0            |  | 0.0                               |  | 49         |  | 0.0       |                        | 0                |  | 0.0   |  | 0.0  |  | 0.0  |   |  |  |  |  |
| Opt Vent                        |  |  |  |  | 0.00                                  |  | 0.00      |  | 0            |                           | 0.0              |  | 0.0            |  | 0.0                               |  | 0          |  | 0.0       |                        | 0                |  | 0.0   |  | 0.0  |  | 0.0  |   |  |  |  |  |
| Total                           |  |  |  |  | 0.88                                  |  |           |  |              |                           |                  |  |                |  |                                   |  | 0          |  | 0.0       |                        | 0                |  | 0.0   |  | 0.0  |  | 0.0  |   |  |  |  |  |



Room Checksums

By GOCSA

FC0101 17 CONSULTA GLAUCOMA V 1/20

| COOLING COIL PEAK               |  |       |        |  | CLG SPACE PEAK                        |          |          |          |          | HEATING COIL PEAK         |           |          |         |  | TEMPERATURES                      |  |  |  |  |
|---------------------------------|--|-------|--------|--|---------------------------------------|----------|----------|----------|----------|---------------------------|-----------|----------|---------|--|-----------------------------------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |       |        |  | Mo/Hr: 7 / 2<br>OADBWB/HR: 19 / 9 / 4 |          |          |          |          | Mo/Hr: 7 / 18<br>OADB: 32 |           |          |         |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  |
| Sens. + Lat.                    |  | Space | Plenum |  | Net                                   | Percent  | Space    |          | Percent  | Space Peak                | Coil Peak | Percent  | Cooling |  | Heating                           |  |  |  |  |
| kW                              |  | kW    | kW     |  | Total                                 | Of Total | Sensible | Of Total | Of Total | Space Sens                | Tot Sens  | Of Total | kW      |  | kW                                |  |  |  |  |
| Envelope Loads                  |  |       |        |  |                                       |          |          |          |          |                           |           |          |         |  |                                   |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.10   |  | 0.10                                  | 0        | 0.00     | 0        | 0        | 0.00                      | -0.15     | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.10   |  | 0.10                                  | 0        | 0.00     | 0        | 0        | 0.00                      | -0.15     | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.03   |  | 0.16                                  | 0        | 0.13     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.26                            |  | 0.00  | 0.00   |  | 0.26                                  | 0        | 0.15     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.35                            |  | 0.00  | 0.00   |  | 0.35                                  | 0        | 0.35     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.74                            |  | 0.03  | 0.03   |  | 0.77                                  | 0        | 0.63     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| Internal Loads                  |  |       |        |  |                                       |          |          |          |          |                           |           |          |         |  |                                   |  |  |  |  |
| 0.01                            |  | -0.01 | 0.00   |  | 0.00                                  | 0        | 0.05     | 0        | 0        | -0.03                     | 0         | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0                               |  | 0     | 0      |  | 0                                     | 0        | 0        | 0        | 0        | 0                         | 0         | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  | 0.00   |  | 0.00                                  | 0        | 0.00     | 0        | 0        | 0.00                      | 0.00      | 0        | 0.00    |  | 0.00                              |  |  |  |  |
| 0.00                            |  | 0.00  |        |  |                                       |          |          |          |          |                           |           |          |         |  |                                   |  |  |  |  |



## Room Checksums

By GOCSA

## FC0101 18 EXPLORACIONES ANALIS V 1/20

| COOLING COIL PEAK                                    |  |                    |  |           |  |                |  |                  |  | CLG SPACE PEAK         |  |                  |  | HEATING COIL PEAK              |  |                    |  | TEMPERATURES     |  |  |  |         |  |         |  |  |  |
|--|--|--------------------|--|-----------|--|----------------|--|------------------|--|------------------------|--|------------------|--|--------------------------------|--|--------------------|--|------------------|--|--|--|---------|--|---------|--|--|--|
| Peaked at Time: Outside Air: OADB/WB/HR: 30 / 17 / 8 |  |                    |  |           |  |                |  |                  |  | Mo/Hr: 7 / 19 OADB: 30 |  |                  |  | Mo/Hr: Heating Design OADB: -5 |  |                    |  | SADB             |  |  |  | Cooling |  | Heating |  |  |  |
| Space Sens. + Lat.                                   |  | Plenum Sens. + Lat |  | Net Total |  | Space Sensible |  | Percent Of Total |  | Space Sensible         |  | Percent Of Total |  | Space Peak Space Sens          |  | Coil Peak Tot Sens |  | Percent Of Total |  | SADB <td colspan="2">Cooling</td> <td colspan="2">Heating</td> |  | Cooling |  | Heating |  |  |  |
| kW   |  | kW                 |  | kW        |  | kW             |  | %                |  | kW                     |  | %                |  | kW                             |  | kW                 |  | %                |  | Plenum   |  | 25.6    |  | 23.9    |  |  |  |
| Envelope Loads                                       |  |                    |  |           |  |                |  |                  |  | Envelope Loads         |  |                  |  |                                |  |                    |  |                  |  |  |  |         |  |         |  |  |  |
| Skylite Solar  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  | Return   |  | 25.6    |  | 20.8    |  |  |  |
| Skylite Cond   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  | Return   |  | 25.6    |  | 20.8    |  |  |  |
| Roof Cond  |  | 0.00               |  | 0.20      |  | 0.20           |  | 6                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  | Ret/OA   |  | 25.6    |  | 20.8    |  |  |  |
| Glass Solar  |  | 0.83               |  | 0.00      |  | 0.83           |  | 25               |  | 0.83                   |  | 31               |  | 0.00                           |  | 0.00               |  | 0                |  | Fn MtrTD   |  | 0.0     |  | 0.0     |  |  |  |
| Glass Cond   |  | 0.09               |  | 0.00      |  | 0.09           |  | 3                |  | 0.09                   |  | 3                |  | Glass Cond                     |  | -0.29              |  | 0                |  | Fn BidTD   |  | 0.0     |  | 0.0     |  |  |  |
| Wall Cond  |  | 0.02               |  | 0.00      |  | 0.02           |  | 1                |  | 0.02                   |  | 1                |  | Wall Cond                      |  | -0.14              |  | 0                |  |  |  | 0.0     |  | 0.0     |  |  |  |
| Partition  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | Partition                      |  | 0.00               |  | 0                |  | Fn Frict   |  | 0.0     |  | 0.0     |  |  |  |
| Exposed Floor  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | Exposed Floor                  |  | 0.00               |  | 0                |  |  |  | 0.0     |  | 0.0     |  |  |  |
| Infiltration   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | Infiltration                   |  | 0.00               |  | 0                |  |  |  | 0.0     |  | 0.0     |  |  |  |
| Sub Total ==>  |  | 0.94               |  | 0.20      |  | 1.14           |  | 34               |  | 0.94                   |  | 35               |  | Sub Total ==>                  |  | -0.43              |  | 0                |  |  |  | 0.0     |  | 0.0     |  |  |  |
| Internal Loads                                       |  |                    |  |           |  |                |  |                  |  | Internal Loads         |  |                  |  |                                |  |                    |  |                  |  |  |  |         |  |         |  |  |  |
| Lights   |  | 0.35               |  | 0.09      |  | 0.44           |  | 13               |  | 0.35                   |  | 13               |  | Lights                         |  | 0.00               |  | 0                |  | Vent   |  | 14.4    |  | 23.9    |  |  |  |
| People   |  | 1.05               |  | 0.00      |  | 1.05           |  | 32               |  | 0.59                   |  | 22               |  | People                         |  | 0.00               |  | 0                |  | Infil  |  | 25.6    |  | 20.8    |  |  |  |
| Misc   |  | 0.70               |  | 0.00      |  | 0.70           |  | 21               |  | 0.70                   |  | 26               |  | Misc                           |  | 0.00               |  | 0                |  | Supply   |  | 25.6    |  | 20.8    |  |  |  |
| Sub Total ==>  |  | 2.10               |  | 0.09      |  | 2.19           |  | 66               |  | 1.64                   |  | 61               |  | Sub Total ==>                  |  | 0.00               |  | 0                |  | MinStop/Rh   |  | 0.0     |  | 0.0     |  |  |  |
| Ceiling Load   |  |                    |  |           |  |                |  |                  |  | Ceiling Load           |  |                  |  |                                |  |                    |  |                  |  |  |  |         |  |         |  |  |  |
| Ventilation Load                                     |  | 0.12               |  | -0.12     |  | 0.00           |  | 0                |  | 0.12                   |  | 4                |  | Ceiling Load                   |  | -0.09              |  | 0                |  | Return   |  | 244     |  | 244     |  |  |  |
| Adj Air Trans Heat                                   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | Ventilation Load               |  | 0.00               |  | 0                |  | Exhaust  |  | 0       |  | 0       |  |  |  |
| Dehumid. Ov Sizing                                   |  | 0                  |  | 0         |  | 0              |  | 0                |  | 0                      |  | 0                |  | Adj Air Trans Heat             |  | 0                  |  | 0                |  | Rm Exh   |  | 0       |  | 0       |  |  |  |
| Ov/Undr Sizing                                       |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | Ov/Undr Sizing                 |  | 0.00               |  | 0                |  | Auxil  |  | 0       |  | 0       |  |  |  |
| Exhaust Heat   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | Exhaust Heat                   |  | 0.00               |  | 0                |  |  |  | 0.0     |  | 0.0     |  |  |  |
| Sup. Fan Heat  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | OA Preheat Diff.               |  | 0.00               |  | 0                |  |  |  | 6.12    |  | 6.12    |  |  |  |
| Ret. Fan Heat  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | RA Preheat Diff.               |  | 0.00               |  | 0                |  |  |  | 73.15   |  | 73.15   |  |  |  |
| Duct Heat PkUp                                       |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | Additional Reheat              |  | 0.00               |  | 0                |  |  |  | 11.96   |  | 11.96   |  |  |  |
| Reheat at Design                                     |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | System Plenum Heat             |  | 0.01               |  | 0                |  |  |  | 83.55   |  | -21.50  |  |  |  |
| Grand Total ==>                                      |  | 3.16               |  | 0.17      |  | 3.33           |  | 100.00           |  | 2.70                   |  | 100.00           |  | Grand Total ==>                |  | -0.52              |  | -0.86            |  | No. People   |  | 8       |  | 8       |  |  |  |
| ENGINEERING CKS                                      |  |                    |  |           |  |                |  |                  |  | ENGINEERING CKS        |  |                  |  |                                |  |                    |  |                  |  |  |  |         |  |         |  |  |  |
| % OA   |  |                    |  |           |  |                |  |                  |  |                        |  |                  |  | % OA                           |  | 0.0                |  | 0.0              |  | Cooling  |  | 0.0     |  | Heating |  |  |  |
| Lps/m²   |  |                    |  |           |  |                |  |                  |  |                        |  |                  |  | Lps/m²                         |  | 6.12               |  | 6.12             |  | Lvs  |  | 23.9    |  | 23.9    |  |  |  |
| Lps/kW   |  |                    |  |           |  |                |  |                  |  |                        |  |                  |  | Lps/kW                         |  | 73.15              |  | 73.15            |  | Coil Airflow   |  | 0       |  | 0.0     |  |  |  |
| m²/kW  |  |                    |  |           |  |                |  |                  |  |                        |  |                  |  | m²/kW                          |  | 11.96              |  | 11.96            |  | Capacity   |  | 0.0     |  | 0.0     |  |  |  |
| W/m²   |  |                    |  |           |  |                |  |                  |  |                        |  |                  |  | W/m²                           |  | 83.55              |  | -21.50           |  |  |  | 0.0     |  | 0.0     |  |  |  |
| No. People   |  |                    |  |           |  |                |  |                  |  |                        |  |                  |  | No. People                     |  | 8                  |  | 8                |  |  |  | 0.0     |  | 0.0     |  |  |  |

| COOLING COIL SELECTION |              |                  |          |          | HEATING COIL SELECTION |             |                  |        |        |
|------------------------|--------------|------------------|----------|----------|------------------------|-------------|------------------|--------|--------|
| Total Capacity kW      | Sens Cap. kW | Coil Airflow L/s | Enter °C | Leave °C | Gross Total m²         | Capacity kW | Coil Airflow L/s | Ent °C | Lvg °C |
| 3.34                   | 2.87         | 244              | 25.6     | 14.4     | 40                     | -0.9        | 244              | 20.8   | 23.9   |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 64                     | 0.0         | 0                | 0.0    | 0.0    |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0                      | 0.0         | 0                | 0.0    | 0.0    |
| 3.34                   | 2.87         | 244              | 25.6     | 14.4     | 40                     | -0.9        | 244              | 20.8   | 23.9   |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 64                     | 0.0         | 0                | 0.0    | 0.0    |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0                      | 0.0         | 0                | 0.0    | 0.0    |
| 3.34                   | 2.87         | 244              | 25.6     | 14.4     | 40                     | -0.9        | 244              | 20.8   | 23.9   |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 64                     | 0.0         | 0                | 0.0    | 0.0    |

| COOLING COIL SELECTION |              |                  |          |          | HEATING COIL SELECTION |             |                  |        |        |
|------------------------|--------------|------------------|----------|----------|------------------------|-------------|------------------|--------|--------|
| Total Capacity kW      | Sens Cap. kW | Coil Airflow L/s | Enter °C | Leave °C | Gross Total m²         | Capacity kW | Coil Airflow L/s | Ent °C | Lvg °C |
| 3.34                   | 2.87         | 244              | 25.6     | 14.4     | 40                     | -0.9        | 244              | 20.8   | 23.9   |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 64                     | 0.0         | 0                | 0.0    | 0.0    |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0                      | 0.0         | 0                | 0.0    | 0.0    |
| 3.34                   | 2.87         | 244              | 25.6     | 14.4     | 40                     | -0.9        | 244              | 20.8   | 23.9   |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 64                     | 0.0         | 0                | 0.0    | 0.0    |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 0                      | 0.0         | 0                | 0.0    | 0.0    |
| 3.34                   | 2.87         | 244              | 25.6     | 14.4     | 40                     | -0.9        | 244              | 20.8   | 23.9   |
| 0.00                   | 0.00         | 0                | 0.0      | 0.0      | 64                     | 0.0         | 0                | 0.0    | 0.0    |



Room Checksums

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| COOLING COIL PEAK            |  |       |        |       |       |       |         |          |          | CLG SPACE PEAK         |  |          |  | HEATING COIL PEAK              |            |    |           | TEMPERATURES |         |            |  |         |      |         |
|------------------------------|--|-------|--------|-------|-------|-------|---------|----------|----------|------------------------|--|----------|--|--------------------------------|------------|----|-----------|--------------|---------|------------|--|---------|------|---------|
| Peaked at Time: Outside Air: |  |       |        |       |       |       |         |          |          | Mo/Hr: 9 / 17 OADB: 28 |  |          |  | Mo/Hr: Heating Design OADB: -5 |            |    |           |              |         |            |  |         |      |         |
|                              |  |       |        |       |       |       |         |          |          |                        |  |          |  |                                |            |    |           |              |         |            |  |         |      |         |
| Sens. + Lat.                 |  | Space | Plenum |       | Net   |       | Percent |          | Of Total | Space                  |  | Sensible |  | Percent                        | Space Peak |    | Coil Peak |              | Percent | SADB       |  | Cooling |      | Heating |
| Sens. + Lat.                 |  | kW    | Sens.  | + Lat | kW    | Total | (%)     | Of Total |          | kW                     |  | kW       |  |                                | Space Sens | kW | Tot Sens  | kW           |         | Plenum     |  | 25.1    | 20.8 |         |
| Envelope Loads               |  |       |        |       |       |       |         |          |          | Envelope Loads         |  |          |  | Envelope Loads                 |            |    |           |              |         |            |  |         |      |         |
| Skylite Solar                |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | 0.00       |    | 0.00      |              | 0       | 0.00       |  | 15.4    |      | 24.2    |
| Skylite Cond                 |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | 0.00       |    | 0.00      |              | 0       | 0.00       |  | 25.1    |      | 20.8    |
| Roof Cond                    |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | 0.00       |    | 0.00      |              | 0       | 0.00       |  | 25.1    |      | 20.8    |
| Glass Solar                  |  | 3.20  | 0.00   |       | 3.20  |       | 73      | 81       | 2        | 3.20                   |  | 3.20     |  | 81                             | 3.20       |    | 0.00      |              | 0       | 0.00       |  | 25.1    |      | 20.8    |
| Glass Cond                   |  | 0.08  | 0.00   |       | 0.08  |       | 2       | 2        | 2        | 0.08                   |  | 0.08     |  | 2                              | -0.71      |    | -0.71     |              | 45      | 0.00       |  | 0.00    |      | 0.00    |
| Wall Cond                    |  | -0.02 | -0.01  |       | -0.03 |       | -1      | -1       | -1       | -0.02                  |  | -0.02    |  | -1                             | -0.25      |    | -0.33     |              | 21      | 0.00       |  | 0.00    |      | 0.00    |
| Partition                    |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | 0.00       |    | 0.00      |              | 0       | 0.00       |  | 0.00    |      | 0.00    |
| Exposed Floor                |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | 0.00       |    | 0.00      |              | 0       | 0.00       |  | 0.00    |      | 0.00    |
| Infiltration                 |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | 0.00       |    | 0.00      |              | 0       | 0.00       |  | 0.00    |      | 0.00    |
| Sub Total ==>                |  | 3.26  | -0.01  |       | 3.25  |       | 74      | 82       | 82       | 3.26                   |  | 3.26     |  | 82                             | -0.96      |    | -1.04     |              | 66      | Supply     |  | 402     |      | 402     |
| Internal Loads               |  |       |        |       |       |       |         |          |          | Internal Loads         |  |          |  | Internal Loads                 |            |    |           |              |         |            |  |         |      |         |
| Lights                       |  | 0.22  | 0.05   |       | 0.27  |       | 6       | 6        | 6        | 0.22                   |  | 0.22     |  | 6                              | 0.00       |    | 0.00      |              | 0       | Return     |  | 402     |      | 402     |
| People                       |  | 0.88  | 0.00   |       | 0.88  |       | 20      | 11       | 11       | 0.44                   |  | 0.44     |  | 11                             | 0.00       |    | 0.00      |              | 0       | Exhaust    |  | 0       |      | 0       |
| Misc                         |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | 0.00       |    | 0.00      |              | 0       | Rm Exh     |  | 0       |      | 0       |
| Sub Total ==>                |  | 1.10  | 0.05   |       | 1.15  |       | 26      | 17       | 17       | 0.66                   |  | 0.66     |  | 17                             | 0.00       |    | 0.00      |              | 0       | Auxil      |  | 0       |      | 0       |
| Ceiling Load                 |  |       |        |       |       |       |         |          |          | Ceiling Load           |  |          |  | Ceiling Load                   |            |    |           |              |         |            |  |         |      |         |
| Ventilation Load             |  | 0.05  | -0.05  |       | 0.00  |       | 0       | 1        | 1        | 0.05                   |  | 0.05     |  | 1                              | -0.05      |    | 0         |              | 0       | % OA       |  | 0.0     |      | 0.0     |
| Adj Air Trans Heat           |  | 0     | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0                      |  | 0        |  | 0                              | 0          |    | 0         |              | 0       | Lps/m²     |  | 16.08   |      | 16.08   |
| Dehumid. Ov Sizing           |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | 0.00       |    | 0.00      |              | 0       | Lps/kW     |  | 91.27   |      | 91.27   |
| OvUndr Sizing                |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | 0.00       |    | 0.00      |              | 0       | m²/kW      |  | 5.68    |      | 5.68    |
| Exhaust Heat                 |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | 0.00       |    | 0.00      |              | 0       | W/m²       |  | 176.08  |      | -62.74  |
| Sup. Fan Heat                |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | 0.00       |    | 0.00      |              | 0       | No. People |  | 6       |      | 6       |
| Ret. Fan Heat                |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | 0.00       |    | 0.00      |              | 0       |            |  |         |      |         |
| Duct Heat Pkup               |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | 0.00       |    | 0.00      |              | 0       |            |  |         |      |         |
| Reheat at Design             |  | 0.00  | 0.00   |       | 0.00  |       | 0       | 0        | 0        | 0.00                   |  | 0.00     |  | 0                              | -0.53      |    | -0.53     |              | 34      |            |  |         |      |         |
| Grand Total ==>              |  | 4.41  | -0.01  |       | 4.40  |       | 100.00  | 100.00   | 100.00   | 3.97                   |  | -1.01    |  |                                | -1.57      |    | 100.00    |              |         |            |  |         |      |         |
| Grand Total ==>              |  |       |        |       |       |       |         |          |          | Grand Total ==>        |  |          |  | Grand Total ==>                |            |    |           |              |         |            |  |         |      |         |

| COOLING COIL SELECTION |  |           |  |              |  |       |  |       |  | HEATING COIL SELECTION |  |       |  |          |  |              |  |       |  |       |  |
|------------------------|--|-----------|--|--------------|--|-------|--|-------|--|------------------------|--|-------|--|----------|--|--------------|--|-------|--|-------|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter |  | Leave |  | Gross Total            |  | Glass |  | Capacity |  | Coil Airflow |  | Ent   |  | Lvg   |  |
| kW                     |  | kW        |  | L/s          |  | °C    |  | °C    |  | °C                     |  | m²    |  | kW       |  | L/s          |  | °C    |  | °C    |  |
| 4.40                   |  | 3.97      |  | 402          |  | 25.1  |  | 15.4  |  | 25                     |  | 0     |  | -1.6     |  | 402          |  | 20.8  |  | 24.2  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0   |  | 0.0   |  | 19                     |  | 0     |  | 0.0      |  | 0            |  | 0.0   |  | 0.0   |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0   |  | 0.0   |  | 0                      |  | 0     |  | 0.0      |  | 0            |  | 0.0   |  | 0.0   |  |
| 4.40                   |  | 0.00      |  | 0.00         |  | 0.0   |  | 0.0   |  | 45                     |  | 0     |  | 0.0      |  | 0            |  | 0.0   |  | 0.0   |  |
| Main Clg               |  | 3.97      |  | 402          |  | 25.1  |  | 15.4  |  | 25                     |  | 0     |  | 0.0      |  | 402          |  | 20.8  |  | 24.2  |  |
| Aux Clg                |  | 0.00      |  | 0            |  | 0.0   |  | 0.0   |  | 19                     |  | 0     |  | 0.0      |  | 0            |  | 0.0   |  | 0.0   |  |
| Opt Vent               |  | 0.00      |  | 0            |  | 0.0   |  | 0.0   |  | 0                      |  | 0     |  | 0.0      |  | 0            |  | 0.0   |  | 0.0   |  |
| Total                  |  | 4.40      |  | 0.00         |  | 0.00  |  | 0.0   |  | 45                     |  | 0     |  | 0.0      |  | 0            |  | 0.0   |  | 0.0   |  |
|                        |  |           |  |              |  |       |  |       |  | 38                     |  | 17    |  | 0.0      |  | 0            |  | 0.0   |  | 0.0   |  |
|                        |  |           |  |              |  |       |  |       |  | Total                  |  | Total |  | Total    |  | Total        |  | Total |  | Total |  |



Room Checksums

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| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK     |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |           |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|-----------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 18      |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB              |  |  |  |  | Cooling   |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 32           |  |  |  |  | OADB: -5              |  |  |  |  | Plenum            |  |  |  |  | 25.5      |  |  |  |  | 20.8         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net                |  |  |  |  | Space                 |  |  |  |  | Space Peak        |  |  |  |  | Coil Peak |  |  |  |  | Percent      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | Total              |  |  |  |  | Sensible              |  |  |  |  | Space Sens        |  |  |  |  | Tot Sens  |  |  |  |  | Of Total     |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                |  |  |  |  | kW        |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  | Envelope Loads     |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  |                         |  |  |  |  | Skylite Solar      |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  |                         |  |  |  |  | Skylite Cond       |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  |                         |  |  |  |  | Roof Cond          |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  |                         |  |  |  |  | Glass Solar        |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  |                         |  |  |  |  | Glass Cond         |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  |                         |  |  |  |  | Wall Cond          |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  |                         |  |  |  |  | Partition          |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  |                         |  |  |  |  | Exposed Floor      |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  |                         |  |  |  |  | Infiltration       |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  | Internal Loads     |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  |                         |  |  |  |  | Lights             |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  |                         |  |  |  |  | People             |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  |                         |  |  |  |  | Misc               |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  | Ceiling Load       |  |  |  |  |                       |  |  |  |  | -0.08             |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  |                         |  |  |  |  | Ventilation Load   |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  |                         |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  |                         |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  |                         |  |  |  |  | Exhaust Heat       |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  |                         |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  |                         |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  |                         |  |  |  |  | Duct Heat Pkup     |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  |                         |  |  |  |  | Reheat at Design   |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | -0.08        |  |  |  |  |  |  |  |  |  | 0    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                         |  |  |  |  | Grand Total ==>    |  |  |  |  |                       |  |  |  |  | 0.08              |  |  |  |  |           |  |  |  |  | -0.08        |  |  |  |  |  |  |  |  |  | 0.10 |  |  |  |  |  |  |  |  |  | 100.00 |  |  |  |  |  |  |  |  |  | -0.07 |  |  |  |  |  |  |  |  |  | -0.08 |  |  |  |  |  |  |  |  |  | 100.00 |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|------|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent  |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C   |  |  |  |  |      |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 8                      |  |  |  |  | -0.1     |  |  |  |  | 8            |  |  |  |  | 20.8 |  |  |  |  | 30.0 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  |      |  |  |  |  |      |  |  |  |  |



## Room Checksums

By GOC SA

**FC0101 21 ESPERA INTERNA V 1/8**

[illegible]



FC0101 22 VESTUARIO VESTUARIO EX 4/75

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK     |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |           |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------|--|--|--|--|-----------------------|--|--|--|--|--------------------|--|--|--|--|-----------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 18      |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB               |  |  |  |  | Cooling   |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 32           |  |  |  |  | OADB: -5              |  |  |  |  | Plenum             |  |  |  |  | 25.5      |  |  |  |  | 20.8         |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net Total          |  |  |  |  | Space Sensible        |  |  |  |  | Space Peak         |  |  |  |  | Coil Peak |  |  |  |  | Percent      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                      |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                 |  |  |  |  | kW        |  |  |  |  | Of Total     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                      |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                 |  |  |  |  | kW        |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  | Envelope Loads     |  |  |  |  |                       |  |  |  |  | Envelope Loads     |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  |                         |  |  |  |  | Skylite Solar      |  |  |  |  |                       |  |  |  |  | Skylite Solar      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  |                         |  |  |  |  | Skylite Cond       |  |  |  |  |                       |  |  |  |  | Skylite Cond       |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  |                         |  |  |  |  | Roof Cond          |  |  |  |  |                       |  |  |  |  | Roof Cond          |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  |                         |  |  |  |  | Glass Solar        |  |  |  |  |                       |  |  |  |  | Glass Solar        |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  |                         |  |  |  |  | Glass Cond         |  |  |  |  |                       |  |  |  |  | Glass Cond         |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  |                         |  |  |  |  | Wall Cond          |  |  |  |  |                       |  |  |  |  | Wall Cond          |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  |                         |  |  |  |  | Partition          |  |  |  |  |                       |  |  |  |  | Partition          |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  |                         |  |  |  |  | Exposed Floor      |  |  |  |  |                       |  |  |  |  | Exposed Floor      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  |                         |  |  |  |  | Infiltration       |  |  |  |  |                       |  |  |  |  | Infiltration       |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  | Internal Loads     |  |  |  |  |                       |  |  |  |  | Internal Loads     |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  |                         |  |  |  |  | Lights             |  |  |  |  |                       |  |  |  |  | Lights             |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  |                         |  |  |  |  | People             |  |  |  |  |                       |  |  |  |  | People             |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  |                         |  |  |  |  | Misc               |  |  |  |  |                       |  |  |  |  | Misc               |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  | Ceiling Load       |  |  |  |  |                       |  |  |  |  | Ceiling Load       |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  |                         |  |  |  |  | Ventilation Load   |  |  |  |  |                       |  |  |  |  | Ventilation Load   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  |                         |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                       |  |  |  |  | Adj Air Trans Heat |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                       |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  |                         |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |                       |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  |                         |  |  |  |  | Exhaust Heat       |  |  |  |  |                       |  |  |  |  | Exhaust Heat       |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  |                         |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                       |  |  |  |  | Sup. Fan Heat      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  |                         |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                       |  |  |  |  | Ret. Fan Heat      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  |                         |  |  |  |  | Duct Heat Pkup     |  |  |  |  |                       |  |  |  |  | Duct Heat Pkup     |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  |                         |  |  |  |  | Reheat at Design   |  |  |  |  |                       |  |  |  |  | Reheat at Design   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                         |  |  |  |  | Grand Total ==>    |  |  |  |  |                       |  |  |  |  | Grand Total ==>    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.06               |  |  |  |  |                         |  |  |  |  | -0.06              |  |  |  |  |                       |  |  |  |  | -0.05              |  |  |  |  |           |  |  |  |  | -0.06        |  |  |  |  |  |  |  |  |  | 100.00 |  |  |  |  |  |  |  |  |  |
| 0.07               |  |  |  |  |                         |  |  |  |  | 100.00             |  |  |  |  |                       |  |  |  |  | 100.00             |  |  |  |  |           |  |  |  |  | 100.00       |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Lvg  |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C   |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 5                      |  |  |  |  | -0.1     |  |  |  |  | 5            |  |  |  |  | 30.0 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  |              |  |  |  |  |      |  |  |  |  |



## Room Checksums

By GOCSA

FC0101 23 ALMACEN EX 4/25

[illegible]



Room Checksums

By GOCSA

FC0101 24 RECEPCION ESPERA V 1/8

| COOLING COIL PEAK            |  |  |  |  |              |  |                        |  |  | CLG SPACE PEAK                        |  |                      |  |                   | HEATING COIL PEAK              |                      |  |               |  | TEMPERATURES          |  |                      |  |   |  |      |  |  |  |
|------------------------------|--|--|--|--|--------------|--|------------------------|--|--|---------------------------------------|--|----------------------|--|-------------------|--------------------------------|----------------------|--|---------------|--|-----------------------|--|----------------------|--|---|--|------|--|--|--|
| Peaked at Time: Outside Air: |  |  |  |  |              |  |                        |  |  | Mo/Hr: 9 / 17 OADBWB/HR: 28 / 18 / 10 |  |                      |  |                   | Mo/Hr: Heating Design OADB: -5 |                      |  |               |  | SADB Cooling Heating  |  |                      |  |   |  |      |  |  |  |
| Sens. + Lat. kW              |  |  |  |  | Space kW     |  | Plenum Sens. + Lat. kW |  |  | Net Total kW                          |  | Percent Of Total (%) |  | Space Sensible kW |                                | Percent Of Total (%) |  | Space Peak kW |  | Coil Peak Tot Sens kW |  | Percent Of Total (%) |  | Plenum Return Ret/OA Fn MtrTD Fn BidTD Fn Frict |  |      |  |  |  |
| Envelope Loads               |  |  |  |  |              |  |                        |  |  | Envelope Loads                        |  |                      |  |                   |                                |                      |  |               |  |                       |  |                      |  |   |  |      |  |  |  |
| Skylite Solar                |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  | 24.2  |  |      |  |  |  |
| Skylite Cond                 |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  | 20.8  |  |      |  |  |  |
| Roof Cond                    |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  | 20.8  |  |      |  |  |  |
| Glass Solar                  |  |  |  |  | 8.68         |  | 8.68                   |  |  | 8.68                                  |  | 35                   |  | 8.68              |                                | 35                   |  | 0.00          |  | 0.00                  |  | 0                    |  | 20.8  |  |      |  |  |  |
| Glass Cond                   |  |  |  |  | 0.32         |  | 0.32                   |  |  | 0.32                                  |  | 1                    |  | 0.32              |                                | 1                    |  | -2.04         |  | -2.04                 |  | 26                   |  | 0.0   |  |      |  |  |  |
| Wall Cond                    |  |  |  |  | 3.51         |  | 4.69                   |  |  | 4.69                                  |  | 15                   |  | 3.51              |                                | 14                   |  | -2.35         |  | -3.13                 |  | 40                   |  | 0.0   |  |      |  |  |  |
| Partition                    |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  | 0.0   |  |      |  |  |  |
| Exposed Floor                |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  | 0   |  |      |  |  |  |
| Infiltration                 |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  | 0   |  |      |  |  |  |
| Sub Total ==>                |  |  |  |  | 12.51        |  | 1.18                   |  |  | 13.69                                 |  | 43                   |  | 12.51             |                                | 51                   |  | -4.39         |  | -5.17                 |  | 66                   |  | Supply MinStop/Rh Return Exhaust Rm Exh Auxil   |  |      |  |  |  |
| Internal Loads               |  |  |  |  |              |  |                        |  |  | Internal Loads                        |  |                      |  |                   |                                |                      |  |               |  |                       |  |                      |  |   |  |      |  |  |  |
| Lights                       |  |  |  |  | 2.78         |  | 0.70                   |  |  | 3.48                                  |  | 11                   |  | 2.78              |                                | 11                   |  | 0.00          |  | 0.00                  |  | 0                    |  | 2,021   |  |      |  |  |  |
| People                       |  |  |  |  | 13.18        |  | 0.00                   |  |  | 13.18                                 |  | 42                   |  | 7.32              |                                | 30                   |  | 0.00          |  | 0.00                  |  | 0                    |  | 0   |  |      |  |  |  |
| Misc                         |  |  |  |  | 1.20         |  | 0.00                   |  |  | 1.20                                  |  | 4                    |  | 1.20              |                                | 5                    |  | 0.00          |  | 0.00                  |  | 0                    |  | 0   |  |      |  |  |  |
| Sub Total ==>                |  |  |  |  | 17.16        |  | 0.70                   |  |  | 17.86                                 |  | 57                   |  | 11.30             |                                | 46                   |  | 0.00          |  | 0.00                  |  | 0                    |  | 0   |  |      |  |  |  |
| Ceiling Load                 |  |  |  |  | 0.65         |  | -0.65                  |  |  | 0.00                                  |  | 0                    |  | 0.65              |                                | 3                    |  | -0.69         |  | 0                     |  | 0                    |  | 0   |  |      |  |  |  |
| Ventilation Load             |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  | 0   |  |      |  |  |  |
| Adj Air Trans Heat           |  |  |  |  | 0            |  | 0.00                   |  |  | 0                                     |  | 0                    |  | 0                 |                                | 0                    |  | 0             |  | 0                     |  | 0                    |  | 0   |  |      |  |  |  |
| Dehumid. Ov Sizing           |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  | 0   |  |      |  |  |  |
| OvUndr Sizing                |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  | 6.39  |  |      |  |  |  |
| Exhaust Heat                 |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  | 64.03   |  |      |  |  |  |
| Sup. Fan Heat                |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  | 10.01   |  |      |  |  |  |
| Ret. Fan Heat                |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  | 99.80   |  |      |  |  |  |
| Duct Heat Pkup               |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  | -24.96  |  |      |  |  |  |
| Reheat at Design             |  |  |  |  | 0.00         |  | 0.00                   |  |  | 0.00                                  |  | 0                    |  | 0.00              |                                | 0                    |  | -2.72         |  | -2.72                 |  | 34                   |  |   |  |      |  |  |  |
| Grand Total ==>              |  |  |  |  | 30.32        |  | 1.23                   |  |  | 31.55                                 |  | 100.00               |  | 24.46             |                                | 100.00               |  | -5.08         |  | -7.89                 |  | 100.00               |  | No. People                                      |  |      |  |  |  |
| COOLING COIL SELECTION       |  |  |  |  |              |  |                        |  |  | COOLING COIL SELECTION                |  |                      |  |                   |                                |                      |  |               |  | ENGINEERING CKS       |  |                      |  |   |  |      |  |  |  |
| Total Capacity kW            |  |  |  |  | Sens Cap. kW |  | Coil Airflow L/s       |  |  | Enter °C                              |  | DB/WB/HR °C          |  | g/kg              |                                | Leave °C             |  | DBWB/HR °C    |  | g/kg                  |  | Lvg °C               |  |   |  |      |  |  |  |
| Main Clg 31.55               |  |  |  |  | 25.69        |  | 2.021                  |  |  | 25.1                                  |  | 17.2                 |  | 10.2              |                                | 13.4                 |  | 12.4          |  | 9.4                   |  | Main Htg -7.9        |  | 2,021   |  | 20.8 |  |  |  |
| Aux Clg 0.00                 |  |  |  |  | 0.00         |  | 0                      |  |  | 0.0                                   |  | 0.0                  |  | 0.0               |                                | 0.0                  |  | 0.0           |  | 0.0                   |  | Aux Htg 0.0          |  | 0   |  | 0.0  |  |  |  |
| Opt Vent 0.00                |  |  |  |  | 0.00         |  | 0                      |  |  | 0.0                                   |  | 0.0                  |  | 0.0               |                                | 0.0                  |  | 0.0           |  | 0.0                   |  | Preheat 0.0          |  | 0   |  | 0.0  |  |  |  |
| Total 31.55                  |  |  |  |  |              |  |                        |  |  |                                       |  |                      |  |                   |                                |                      |  |               |  |                       |  | Humidif 0.0          |  | 0   |  | 0.0  |  |  |  |
|                              |  |  |  |  |              |  |                        |  |  |                                       |  |                      |  |                   |                                |                      |  |               |  |                       |  | Opt Vent 0.0         |  | 0   |  | 0.0  |  |  |  |
|                              |  |  |  |  |              |  |                        |  |  |                                       |  |                      |  |                   |                                |                      |  |               |  |                       |  | Total -7.9           |  |   |  |      |  |  |  |







FC0101 26 ASE0 PACIENTES EX 4/50

| COOLING COIL PEAK            |                 |          |                        | CLG SPACE PEAK                   |                      |                   |                      | HEATING COIL PEAK              |               |                       |                      |
|------------------------------|-----------------|----------|------------------------|----------------------------------|----------------------|-------------------|----------------------|--------------------------------|---------------|-----------------------|----------------------|
| Peaked at Time: Outside Air: |                 |          |                        | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |                      |                   |                      | Mo/Hr: Heating Design OADB: -5 |               |                       |                      |
| Envelope Loads               | Sens. + Lat. kW | Space kW | Plenum Sens. + Lat. kW | Net Total kW                     | Percent Of Total (%) | Space Sensible kW | Percent Of Total (%) | Envelope Loads                 | Space Sens kW | Coil Peak Tot Sens kW | Percent Of Total (%) |
|                              |                 |          |                        |                                  |                      |                   |                      |                                |               |                       |                      |
| Skylite Solar                | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Skylite Solar                  | 0.00          | 0.00                  | 0                    |
| Skylite Cond                 | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Skylite Cond                   | 0.00          | 0.00                  | 0                    |
| Roof Cond                    | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Roof Cond                      | 0.00          | 0.00                  | 0                    |
| Glass Solar                  | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Glass Solar                    | 0.00          | 0.00                  | 0                    |
| Glass Cond                   | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Glass Cond                     | 0.00          | 0.00                  | 0                    |
| Wall Cond                    | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Wall Cond                      | 0.00          | 0.00                  | 0                    |
| Partition                    | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Partition                      | 0.00          | 0.00                  | 0                    |
| Exposed Floor                | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Exposed Floor                  | 0.00          | 0.00                  | 0                    |
| Infiltration                 | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Infiltration                   | 0.00          | 0.00                  | 0                    |
| Sub Total ==>                | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Sub Total ==>                  | 0.00          | 0.00                  | 0                    |
| Internal Loads               |                 |          |                        |                                  |                      |                   |                      |                                |               |                       |                      |
| Lights                       | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Lights                         | 0.00          | 0.00                  | 0                    |
| People                       | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | People                         | 0.00          | 0.00                  | 0                    |
| Misc                         | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Misc                           | 0.00          | 0.00                  | 0                    |
| Sub Total ==>                | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Sub Total ==>                  | 0.00          | 0.00                  | 0                    |
| Ceiling Load                 |                 |          |                        |                                  |                      |                   |                      |                                |               |                       |                      |
| Ventilation Load             | 0.03            | 0.00     | -0.03                  | 0.00                             | 0                    | 0.03              | 0                    | Ceiling Load                   | -0.02         | 0                     | 0                    |
| Adj Air Trans Heat           | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Ventilation Load               | 0.00          | 0.00                  | 0                    |
| Dehumid. Ov Sizing           | 0               | 0        | 0                      | 0                                | 0                    | 0                 | 0                    | Adj Air Trans Heat             | 0             | 0                     | 0                    |
| OvUndr Sizing                | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | OvUndr Sizing                  | 0.00          | 0.00                  | 0                    |
| Exhaust Heat                 | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Exhaust Heat                   | 0.00          | 0.00                  | 0                    |
| Sup. Fan Heat                | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | OA Preheat Diff.               | 0.00          | 0.00                  | 0                    |
| Ret. Fan Heat                | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | RA Preheat Diff.               | 0.00          | 0.00                  | 0                    |
| Duct Heat Pkup               | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | Additional Reheat              | 0.00          | 0.00                  | 0                    |
| Reheat at Design             | 0.00            | 0.00     | 0.00                   | 0.00                             | 0                    | 0.00              | 0                    | System Plenum Heat             | -0.03         | -0.03                 | 0                    |
| Grand Total ==>              | 0.03            | 0.03     | -0.03                  | 0.00                             | 100.00               | 0.03              | 100.00               | Grand Total ==>                | -0.02         | -0.03                 | 100.00               |

| TEMPERATURES |         |         |  |
|--------------|---------|---------|--|
| SADB         | Cooling | Heating |  |
| Plenum       | 12.8    | 30.0    |  |
| Return       | 25.5    | 20.8    |  |
| Ret/OA       | 25.5    | 20.8    |  |
| Fn MtrTD     | 25.5    | 20.8    |  |
| Fn BidTD     | 0.0     | 0.0     |  |
| Fn Frict     | 0.0     | 0.0     |  |

| AIRFLOWS   |         |         |  |
|------------|---------|---------|--|
| Vent       | Cooling | Heating |  |
| Infil      | 0       | 0       |  |
| Supply     | 0       | 0       |  |
| MinStop/Rh | 3       | 3       |  |
| Return     | 0       | 0       |  |
| Exhaust    | 3       | 3       |  |
| Rm Exh     | 0       | 0       |  |
| Auxil      | 0       | 0       |  |

| ENGINEERING CKS |            |         |  |
|-----------------|------------|---------|--|
| % OA            | Cooling    | Heating |  |
|                 | 0.0        | 0.0     |  |
| Lps/m²          | 0.24       | 0.24    |  |
| Lps/kW          | 372,549.53 |         |  |
| m²/kW           | 555,409.23 |         |  |
| W/m²            | 0.00       | -2.51   |  |
| No. People      | 0          |         |  |

| COOLING COIL SELECTION |              |                  |          |             |                   |
|------------------------|--------------|------------------|----------|-------------|-------------------|
| Total Capacity kW      | Sens Cap. kW | Coil Airflow L/s | Enter °C | DB/WB/HR °C | Leave DB/WB/HR °C |
| Main Clg               | 0.00         | 3                | 25.5     | 14.2        | 6.4               |
| Aux Clg                | 0.00         | 0                | 0.0      | 0.0         | 0.0               |
| Opt Vent               | 0.00         | 0                | 0.0      | 0.0         | 0.0               |
| Total                  | 0.00         |                  |          |             |                   |

| AREAS       |  | Glass m² | (%) |
|-------------|--|----------|-----|
| Gross Total |  | 11       |     |
| Floor       |  | 41       |     |
| Part        |  | 0        |     |
| ExFlr       |  | 0        |     |
| Roof        |  | 0        |     |
| Wall        |  | 0        |     |

| HEATING COIL SELECTION |                  |        |        |
|------------------------|------------------|--------|--------|
| Capacity kW            | Coil Airflow L/s | Ent °C | Lvg °C |
| Main Htg               | 0.0              | 3      | 20.8   |
| Aux Htg                | 0.0              | 0      | 0.0    |
| Preheat                | 0.0              | 0      | 0.0    |
| Humidif                | 0.0              | 0      | 0.0    |
| Opt Vent               | 0.0              | 0      | 0.0    |
| Total                  | 0.0              |        |        |



Room Checksums

By GOCSA

FC0101 27 CONSULTA GENERAL V 1/20

| COOLING COIL PEAK            |  |                     |  |           | CLG SPACE PEAK                          |                  |  |                |  | HEATING COIL PEAK         |  |                       |  |                    | TEMPERATURES                      |                  |  |  |  |
|------------------------------|--|---------------------|--|-----------|---|------------------|--|----------------|--|---------------------------|--|-----------------------|--|--------------------|-----------------------------------|------------------|--|--|--|
| Peaked at Time: Outside Air: |  |                     |  |           | Mo/Hr: 7 / 19<br>OADBWB/HR: 30 / 17 / 8 |                  |  |                |  | Mo/Hr: 9 / 18<br>OADB: 26 |  |                       |  |                    | Mo/Hr: Heating Design<br>OADB: -5 |                  |  |  |  |
| Space Sens. + Lat.           |  | Plenum Sens. + Lat. |  | Net Total |   | Percent Of Total |  | Space Sensible |  | Percent Of Total          |  | Space Peak Space Sens |  | Coil Peak Tot Sens |                                   | Percent Of Total |  |  |  |
| kW                           |  | kW                  |  | kW        |   | %                |  | kW             |  | %                         |  | kW                    |  | kW                 |                                   | %                |  |  |  |
| Envelope Loads               |  |                     |  |           |   |                  |  |                |  |                           |  |                       |  |                    |                                   |                  |  |  |  |
| Skylite Solar                |  | 0.00                |  | 0.00      |   | 0                |  | 0.00           |  | 0                         |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Skylite Cond                 |  | 0.00                |  | 0.00      |   | 0                |  | 0.00           |  | 0                         |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Roof Cond                    |  | 0.00                |  | 0.07      |   | 5                |  | 0.00           |  | 0                         |  | 0.00                  |  | -0.13              |                                   | 0                |  |  |  |
| Glass Solar                  |  | 0.55                |  | 0.00      |   | 38               |  | 0.62           |  | 49                        |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Glass Cond                   |  | 0.03                |  | 0.00      |   | 2                |  | 0.01           |  | 1                         |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Wall Cond                    |  | 0.02                |  | 0.00      |   | 1                |  | -0.01          |  | -1                        |  | -0.11                 |  | -0.11              |                                   | 0                |  |  |  |
| Partition                    |  | 0.00                |  | 0.00      |   | 0                |  | 0.00           |  | 0                         |  | 0.00                  |  | -0.12              |                                   | 0                |  |  |  |
| Exposed Floor                |  | 0.00                |  | 0.00      |   | 0                |  | 0.00           |  | 0                         |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Infiltration                 |  | 0.00                |  | 0.00      |   | 0                |  | 0.00           |  | 0                         |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Sub Total ==>                |  | 0.60                |  | 0.07      |   | 47               |  | 0.62           |  | 49                        |  | -0.21                 |  | -0.36              |                                   | 0                |  |  |  |
| Internal Loads               |  |                     |  |           |   |                  |  |                |  |                           |  |                       |  |                    |                                   |                  |  |  |  |
| Lights                       |  | 0.12                |  | 0.03      |   | 10               |  | 0.12           |  | 9                         |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| People                       |  | 0.26                |  | 0.00      |   | 18               |  | 0.15           |  | 12                        |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Misc                         |  | 0.35                |  | 0.00      |   | 24               |  | 0.35           |  | 28                        |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Sub Total ==>                |  | 0.73                |  | 0.03      |   | 53               |  | 0.62           |  | 49                        |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Engineering CKS              |  |                     |  |           |   |                  |  |                |  |                           |  |                       |  |                    |                                   |                  |  |  |  |
| Ceiling Load                 |  | 0.04                |  | -0.04     |   | 0                |  | 0.03           |  | 2                         |  | -0.03                 |  | 0                  |                                   | 0                |  |  |  |
| Ventilation Load             |  | 0.00                |  | 0.00      |   | 0                |  | 0.00           |  | 0                         |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Adj Air Trans Heat           |  | 0                   |  | 0.00      |   | 0                |  | 0              |  | 0                         |  | 0                     |  | 0                  |                                   | 0                |  |  |  |
| Dehumid. Ov Sizing           |  | 0.00                |  | 0.00      |   | 0                |  | 0.00           |  | 0                         |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Ov/Undr Sizing               |  | 0.00                |  | 0.00      |   | 0                |  | 0.00           |  | 0                         |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Exhaust Heat                 |  | 0.00                |  | 0.00      |   | 0                |  | 0.00           |  | 0                         |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Sup. Fan Heat                |  | 0.00                |  | 0.00      |   | 0                |  | 0.00           |  | 0                         |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Ret. Fan Heat                |  | 0.00                |  | 0.00      |   | 0                |  | 0.00           |  | 0                         |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Duct Heat Pkup               |  | 0.00                |  | 0.00      |   | 0                |  | 0.00           |  | 0                         |  | 0.00                  |  | 0.00               |                                   | 0                |  |  |  |
| Reheat at Design             |  | 0.00                |  | 0.00      |   | 0                |  | 0.00           |  | 0                         |  | -0.06                 |  | -0.06              |                                   | 0                |  |  |  |
| Grand Total ==>              |  | 1.37                |  | 0.06      |   | 100.00           |  | 1.27           |  | 100.00                    |  | -0.24                 |  | -0.42              |                                   | 100.00           |  |  |  |
| Engineering CKS              |  |                     |  |           |   |                  |  |                |  |                           |  |                       |  |                    |                                   |                  |  |  |  |
| % OA                         |  | 0.0                 |  | 0.0       |   | 0                |  | 0.0            |  | 0                         |  | 0.0                   |  | 0.0                |                                   | 0.0              |  |  |  |
| Lps/m²                       |  | 9.90                |  | 9.90      |   | 0                |  | 9.90           |  | 0                         |  | 9.90                  |  | 9.90               |                                   | 0                |  |  |  |
| Lps/kW                       |  | 91.19               |  | 91.19     |   | 0                |  | 91.19          |  | 0                         |  | 91.19                 |  | 91.19              |                                   | 0                |  |  |  |
| m²/kW                        |  | 9.22                |  | 9.22      |   | 0                |  | 9.22           |  | 0                         |  | 9.22                  |  | 9.22               |                                   | 0                |  |  |  |
| W/m²                         |  | 108.45              |  | 108.45    |   | 0                |  | 108.45         |  | 0                         |  | 108.45                |  | 108.45             |                                   | 0                |  |  |  |
| No. People                   |  | 2                   |  | 2         |   | 0                |  | 2              |  | 0                         |  | 2                     |  | 2                  |                                   | 0                |  |  |  |
| Heating Coil Selection       |  |                     |  |           |   |                  |  |                |  |                           |  |                       |  |                    |                                   |                  |  |  |  |
| Capacity                     |  | kW                  |  | L/s       |   | °C               |  | °C             |  | g/kg                      |  | g/kg                  |  | L/s                |                                   | °C               |  |  |  |
| Main Ctg                     |  | 1.44                |  | 1.32      |   | 132              |  | 15.6           |  | 13.9                      |  | 10.1                  |  | 132                |                                   | 20.8             |  |  |  |
| Aux Ctg                      |  | 0.00                |  | 0.00      |   | 0                |  | 0.0            |  | 0.0                       |  | 0.0                   |  | 0                  |                                   | 0.0              |  |  |  |
| Opt Vent                     |  | 0.00                |  | 0.00      |   | 0                |  | 0.0            |  | 0.0                       |  | 0.0                   |  | 0                  |                                   | 0.0              |  |  |  |
| Total                        |  | 1.44                |  | 1.32      |   | 132              |  | 15.6           |  | 13.9                      |  | 10.1                  |  | 132                |                                   | 20.8             |  |  |  |
| Total                        |  | 1.44                |  | 1.32      |   | 132              |  | 15.6           |  | 13.9                      |  | 10.1                  |  | 132                |                                   | 20.8             |  |  |  |



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| COOLING COIL PEAK            |                    |       |                    | CLG SPACE PEAK                       |                  |                |                  | HEATING COIL PEAK              |                    |                  |            | TEMPERATURES |         |         |  |
|------------------------------|--------------------|-------|--------------------|--------------------------------------|------------------|----------------|------------------|--------------------------------|--------------------|------------------|------------|--------------|---------|---------|--|
| Peaked at Time: Outside Air: |                    |       |                    | Mo/Hr: 7 / 19 OADBWB/Hr: 30 / 17 / 8 |                  |                |                  | Mo/Hr: Heating Design OADB: -5 |                    |                  |            |              |         |         |  |
| Envelope Loads               | Space Sens. + Lat. |       | Plenum Sens. + Lat | Net Total                            | Percent Of Total | Space Sensible | Percent Of Total | Space Peak Space Sens          | Coil Peak Tot Sens | Percent Of Total | SADB       | Cooling      | Heating |         |  |
|                              | kW                 | kW    | kW                 | kW                                   | (%)              | (%)            | kW               | kW                             | (%)                |                  |            |              |         |         |  |
| Skylite Solar                | 0.00               |       | 0.00               | 0.00                                 | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                |            | 15.6         | 23.6    |         |  |
| Skylite Cond                 | 0.00               |       | 0.00               | 0.00                                 | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                | Plenum     | 25.6         | 20.8    |         |  |
| Roof Cond                    | 0.00               |       | 0.07               | 0.07                                 | 5                | 0.00           | 0                | 0.00                           | -0.14              | 0                | Return     | 25.6         | 20.8    |         |  |
| Glass Solar                  | 0.55               |       | 0.00               | 0.55                                 | 38               | 0.62           | 49               | 0.00                           | 0.00               | 0                | Ret/OA     | 25.6         | 20.8    |         |  |
| Glass Cond                   | 0.03               |       | 0.00               | 0.03                                 | 2                | 0.01           | 1                | -0.11                          | 0.00               | 0                | Fn MtrTD   | 0.0          | 0.0     |         |  |
| Wall Cond                    | 0.02               |       | 0.00               | 0.02                                 | 1                | -0.01          | -1               | -0.10                          | -0.12              | 0                | Fn BidTD   | 0.0          | 0.0     |         |  |
| Partition                    | 0.00               |       | 0.00               | 0.00                                 | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                | Fn Frict   | 0.0          | 0.0     |         |  |
| Exposed Floor                | 0.00               |       | 0.00               | 0.00                                 | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                |            |              |         |         |  |
| Infiltration                 | 0.00               |       | 0.00               | 0.00                                 | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                |            |              |         |         |  |
| Sub Total ==>                | 0.60               | 0.07  | 0.07               | 0.67                                 | 47               | 0.62           | 49               | -0.21                          | -0.37              | 0                | Vent       | 0            | 0       | Heating |  |
|                              |                    |       |                    |                                      |                  |                |                  |                                |                    |                  | Infil      | 0            | 0       |         |  |
|                              |                    |       |                    |                                      |                  |                |                  |                                |                    |                  | Supply     | 133          | 133     |         |  |
|                              |                    |       |                    |                                      |                  |                |                  |                                |                    |                  | MinStop/Rh | 0            | 0       |         |  |
| Internal Loads               |                    |       |                    |                                      |                  |                |                  |                                |                    |                  | Return     | 133          | 133     |         |  |
| Lights                       | 0.12               | 0.03  | 0.03               | 0.15                                 | 10               | 0.12           | 9                | 0.00                           | 0.00               | 0                | Exhaust    | 0            | 0       |         |  |
| People                       | 0.26               |       | 0.00               | 0.26                                 | 18               | 0.15           | 12               | 0.00                           | 0.00               | 0                | Rm Exh     | 0            | 0       |         |  |
| Misc                         | 0.35               | 0.00  | 0.00               | 0.35                                 | 24               | 0.35           | 28               | 0.00                           | 0.00               | 0                | Auxil      | 0            | 0       |         |  |
| Sub Total ==>                | 0.73               | 0.03  | 0.03               | 0.76                                 | 53               | 0.62           | 49               | 0.00                           | 0.00               | 0                |            |              |         |         |  |
|                              |                    |       |                    |                                      |                  |                |                  |                                |                    |                  |            |              |         |         |  |
| Ceiling Load                 | 0.04               | -0.04 | -0.04              | 0.00                                 | 0                | 0.03           | 2                | -0.03                          | 0                  | 0                |            |              |         |         |  |
| Ventilation Load             | 0.00               | 0.00  | 0.00               | 0.00                                 | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                |            |              |         |         |  |
| Adj Air Trans Heat           | 0                  |       | 0.00               | 0                                    | 0                | 0              | 0                | 0                              | 0                  | 0                | % OA       | 0.0          | 0.0     | Heating |  |
| Dehumid. Ov Sizing           |                    |       |                    | 0                                    | 0                |                |                  |                                |                    |                  |            |              |         |         |  |
| Ov/Undr Sizing               | 0.00               |       |                    | 0.00                                 | 0                | 0.00           | 0                | 0.00                           | 0.00               | 0                | Lps/m²     | 9.35         | 9.35    |         |  |
| Exhaust Heat                 |                    | 0.00  |                    | 0.00                                 | 0                |                |                  | 0.00                           | 0.00               | 0                | Lps/kW     | 91.09        |         |         |  |
| Sup. Fan Heat                |                    |       |                    | 0.00                                 | 0                |                |                  | 0.00                           | 0.00               | 0                |            |              |         |         |  |
| Ret. Fan Heat                |                    | 0.00  |                    | 0.00                                 | 0                |                |                  | 0.00                           | 0.00               | 0                | m²/kW      | 9.75         |         |         |  |
| Duct Heat PkUp               |                    | 0.00  |                    | 0.00                                 | 0                |                |                  | 0.00                           | 0.00               | 0                | W/m²       | 102.53       | -29.76  |         |  |
| Reheat at Design             |                    |       |                    | 0.00                                 | 0                |                |                  | 0.00                           | -0.05              | 0                |            |              |         |         |  |
| Grand Total ==>              | 1.37               | 0.06  | 0.06               | 1.43                                 | 100.00           | 1.27           | 100.00           | -0.24                          | -0.42              | 100.00           | No. People | 2            |         |         |  |

| COOLING COIL SELECTION |           |              |       |       | HEATING COIL SELECTION |       |          |         |         |
|------------------------|-----------|--------------|-------|-------|------------------------|-------|----------|---------|---------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | Leave | Gross Total            | Glass | Main Htg | Aux Htg | Preheat |
| kW                     | kW        | L/s          | °C    | °C    | m²                     | (%)   |          |         |         |
| 1.46                   | 1.34      | 133          | 25.6  | 15.6  | 14                     |       |          |         |         |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0   | 47                     |       |          |         |         |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0   | 0                      |       |          |         |         |
| Total                  | 1.46      |              |       |       | 14                     | 0     |          |         |         |

| COOLING COIL SELECTION |           |              |       |       | HEATING COIL SELECTION |       |          |         |         |
|------------------------|-----------|--------------|-------|-------|------------------------|-------|----------|---------|---------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | Leave | Gross Total            | Glass | Main Htg | Aux Htg | Preheat |
| kW                     | kW        | L/s          | °C    | °C    | m²                     | (%)   |          |         |         |
| 1.46                   | 1.34      | 133          | 25.6  | 15.6  | 14                     |       |          |         |         |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0   | 47                     |       |          |         |         |
| 0.00                   | 0.00      | 0            | 0.0   | 0.0   | 0                      |       |          |         |         |
| Total                  | 1.46      |              |       |       | 14                     | 0     |          |         |         |



Room Checksums

By GOCSA

FC0101 29 SALA EXPLORACIONES V 5/10

| COOLING COIL PEAK            |                    |                    |           | CLG SPACE PEAK         |                |                  |            | HEATING COIL PEAK              |                  |          |         | TEMPERATURES |  |         |  |
|------------------------------|--------------------|--------------------|-----------|------------------------|----------------|------------------|------------|--------------------------------|------------------|----------|---------|--------------|--|---------|--|
| Peaked at Time: Outside Air: |                    |                    |           | Mo/Hr: 7 / 19 OADB: 30 |                |                  |            | Mo/Hr: Heating Design OADB: -5 |                  |          |         |              |  |         |  |
| Envelope Loads               | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total       | Space Sensible | Percent Of Total | Space Peak | Coil Peak                      | Percent Of Total | SADB     | Cooling | Heating      |  |         |  |
|                              | kW                 | kW                 | kW        | (%)                    | kW             | (%)              | kW         | Tot Sens kW                    | (%)              | Plenum   | 15.7    | 24.0         |  |         |  |
|                              | 0.00               | 0.00               | 0.00      | 0                      | 0.00           | 0                | 0.00       | 0.00                           | 0                | Return   | 25.6    | 20.8         |  |         |  |
|                              | 0.00               | 0.00               | 0.00      | 0                      | 0.00           | 0                | 0.00       | -0.22                          | 0                | Ret/OA   | 25.6    | 20.8         |  |         |  |
|                              | 0.55               | 0.00               | 0.55      | 35                     | 0.55           | 40               | 0.00       | 0.00                           | 0                | Fn MtrTD | 0.0     | 0.0          |  |         |  |
|                              | 0.03               | 0.00               | 0.03      | 2                      | 0.03           | 2                | -0.11      | -0.11                          | 0                | Fn BidTD | 0.0     | 0.0          |  |         |  |
|                              | 0.04               | 0.01               | 0.05      | 3                      | 0.04           | 3                | -0.17      | -0.20                          | 0                | Fn Frict | 0.0     | 0.0          |  |         |  |
|                              | 0.00               | 0.00               | 0.00      | 0                      | 0.00           | 0                | 0.00       | 0.00                           | 0                |          |         |              |  |         |  |
|                              | 0.00               | 0.00               | 0.00      | 0                      | 0.00           | 0                | 0.00       | 0.00                           | 0                |          |         |              |  |         |  |
|                              | 0.00               | 0.00               | 0.00      | 0                      | 0.00           | 0                | 0.00       | 0.00                           | 0                |          |         |              |  |         |  |
| Sub Total ==>                |                    |                    |           | 0.74                   |                |                  |            | -0.28                          |                  |          |         | -0.53        |  |         |  |
| AIRFLOWS                     |                    |                    |           |                        |                |                  |            |                                |                  |          |         | Cooling      |  | Heating |  |
| Vent                         |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 0            |  | 0       |  |
| Infil                        |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 0            |  | 0       |  |
| Supply                       |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 146          |  | 146     |  |
| MinStop/Rh                   |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 0            |  | 0       |  |
| Return                       |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 146          |  | 146     |  |
| Exhaust                      |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 0            |  | 0       |  |
| Rm Exh                       |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 0            |  | 0       |  |
| Auxil                        |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 0            |  | 0       |  |
| ENGINEERING CKS              |                    |                    |           |                        |                |                  |            |                                |                  |          |         | Cooling      |  | Heating |  |
| % OA                         |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 0.0          |  | 0.0     |  |
| Lps/m²                       |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 6.67         |  | 6.67    |  |
| Lps/kW                       |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 91.10        |  |         |  |
| m²/kW                        |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 13.67        |  |         |  |
| W/m²                         |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 73.13        |  | -24.20  |  |
| No. People                   |                    |                    |           |                        |                |                  |            |                                |                  |          |         | 2            |  |         |  |

| TEMPERATURES |         |      |         |
|--------------|---------|------|---------|
| SADB         | Cooling | 15.7 | Heating |
| Plenum       |         | 25.6 | 20.8    |
| Return       |         | 25.6 | 20.8    |
| Ret/OA       |         | 25.6 | 20.8    |
| Fn MtrTD     |         | 0.0  | 0.0     |
| Fn BidTD     |         | 0.0  | 0.0     |
| Fn Frict     |         | 0.0  | 0.0     |

| AIRFLOWS   |         |     |         |
|------------|---------|-----|---------|
| Vent       | Cooling | 0   | Heating |
| Infil      |         | 0   | 0       |
| Supply     |         | 146 | 146     |
| MinStop/Rh |         | 0   | 0       |
| Return     |         | 146 | 146     |
| Exhaust    |         | 0   | 0       |
| Rm Exh     |         | 0   | 0       |
| Auxil      |         | 0   | 0       |

| ENGINEERING CKS |         |       |         |
|-----------------|---------|-------|---------|
| % OA            | Cooling | 0.0   | Heating |
|                 |         | 0.0   | 0.0     |
| Lps/m²          |         | 6.67  | 6.67    |
| Lps/kW          |         | 91.10 |         |
| m²/kW           |         | 13.67 |         |
| W/m²            |         | 73.13 | -24.20  |
| No. People      |         |       | 2       |

| COOLING COIL SELECTION |           |              |       |             |                |
|------------------------|-----------|--------------|-------|-------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | DB/WB/HR    | Leave          |
| kW                     | kW        | L/s          | °C    | °C g/kg     | °C g/kg        |
| Main Clg               | 1.60      | 146          | 25.6  | 17.4 10.1   | 15.7 14.0 10.1 |
| Aux Clg                | 0.00      | 0.00         | 0 0.0 | 0.0 0.0 0.0 | 0.0 0.0 0.0    |
| Opt Vent               | 0.00      | 0            | 0 0.0 | 0.0 0.0 0.0 | 0.0 0.0 0.0    |
| Total                  | 1.60      |              |       |             |                |

| AREAS       |       |     |
|-------------|-------|-----|
| Gross Total | Glass | (%) |
| m²          |       |     |
| Floor       | 22    |     |
| Part        | 60    |     |
| ExFlr       | 0     |     |
| Roof        | 22    | 0   |
| Wall        | 20    | 3   |
|             |       | 14  |

| HEATING COIL SELECTION |              |     |           |
|------------------------|--------------|-----|-----------|
| Capacity               | Coil Airflow | Ent | Lvg       |
| kW                     | L/s          | °C  | °C        |
| Main Htg               | -0.5         | 146 | 20.8 24.0 |
| Aux Htg                | 0.0          | 0   | 0.0 0.0   |
| Preheat                | 0.0          | 0   | 0.0 0.0   |
| Humidif                | 0.0          | 0   | 0.0 0.0   |
| Opt Vent               | 0.0          | 0   | 0.0 0.0   |
| Total                  | -0.5         |     |           |



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| COOLING COIL PEAK  |  |        |  |       |                        |         |  |       |  | CLG SPACE PEAK |  |         |  |            |                       |           |  |          |  | HEATING COIL PEAK |  |         |  |         |  |  |  |  |  | TEMPERATURES |  |  |  |  |  |
|--------------------|--|--------|--|-------|------------------------|---------|--|-------|--|----------------|--|---------|--|------------|-----------------------|-----------|--|----------|--|-------------------|--|---------|--|---------|--|--|--|--|--|--------------|--|--|--|--|--|
| Peaked at Time:    |  |        |  |       | Mo/Hr: 7 / 18          |         |  |       |  | Mo/Hr: 7 / 18  |  |         |  |            | Mo/Hr: Heating Design |           |  |          |  |                   |  |         |  |         |  |  |  |  |  |              |  |  |  |  |  |
| Outside Air:       |  |        |  |       | OADBWB/HR: 32 / 19 / 9 |         |  |       |  | OADB: 32       |  |         |  |            | OADB: -5              |           |  |          |  |                   |  |         |  |         |  |  |  |  |  |              |  |  |  |  |  |
| Sens. + Lat.       |  | Plenum |  | Net   |                        | Percent |  | Space |  | Sensible       |  | Percent |  | Space Peak |                       | Coil Peak |  | Percent  |  | SADB              |  | Cooling |  | Heating |  |  |  |  |  |              |  |  |  |  |  |
| kW                 |  | kW     |  | kW    |                        | %       |  | kW    |  | kW             |  | %       |  | Space Sens |                       | Tot Sens  |  | Of Total |  | Return            |  | 25.7    |  | 20.8    |  |  |  |  |  |              |  |  |  |  |  |
| kW                 |  | kW     |  | kW    |                        | %       |  | kW    |  | kW             |  | %       |  | kW         |                       | kW        |  | %        |  | Fn MtrTD          |  | 0.0     |  | 0.0     |  |  |  |  |  |              |  |  |  |  |  |
| kW                 |  | kW     |  | kW    |                        | %       |  | kW    |  | kW             |  | %       |  | kW         |                       | kW        |  | %        |  | Fn BidTD          |  | 0.0     |  | 0.0     |  |  |  |  |  |              |  |  |  |  |  |
| kW                 |  | kW     |  | kW    |                        | %       |  | kW    |  | kW             |  | %       |  | kW         |                       | kW        |  | %        |  | Fn Frict          |  | 0.0     |  | 0.0     |  |  |  |  |  |              |  |  |  |  |  |
| Envelope Loads     |  |        |  |       |                        |         |  |       |  |                |  |         |  |            |                       |           |  |          |  |                   |  |         |  |         |  |  |  |  |  |              |  |  |  |  |  |
| Skylite Solar      |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | 0.00              |  | 12.8    |  | 30.0    |  |  |  |  |  |              |  |  |  |  |  |
| Skylite Cond       |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | 0.00              |  | 25.7    |  | 20.8    |  |  |  |  |  |              |  |  |  |  |  |
| Roof Cond          |  | 0.00   |  | 0.36  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | -0.21     |  | 0        |  | 0.00              |  | 25.7    |  | 20.8    |  |  |  |  |  |              |  |  |  |  |  |
| Glass Solar        |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | 0.00              |  | 25.7    |  | 20.8    |  |  |  |  |  |              |  |  |  |  |  |
| Glass Cond         |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | 0.00              |  | 0.0     |  | 0.0     |  |  |  |  |  |              |  |  |  |  |  |
| Wall Cond          |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | 0.00              |  | 0.0     |  | 0.0     |  |  |  |  |  |              |  |  |  |  |  |
| Partition          |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | 0.00              |  | 0.0     |  | 0.0     |  |  |  |  |  |              |  |  |  |  |  |
| Exposed Floor      |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | 0.00              |  | 0.0     |  | 0.0     |  |  |  |  |  |              |  |  |  |  |  |
| Infiltration       |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | 0.00              |  | 0.0     |  | 0.0     |  |  |  |  |  |              |  |  |  |  |  |
| Sub Total ==>      |  | 0.00   |  | 0.36  |                        | 0       |  | 0.00  |  | 0.00           |  | 0       |  | 0.00       |                       | -0.21     |  | 0        |  | Supply            |  | 2       |  | 2       |  |  |  |  |  |              |  |  |  |  |  |
| Internal Loads     |  |        |  |       |                        |         |  |       |  |                |  |         |  |            |                       |           |  |          |  |                   |  |         |  |         |  |  |  |  |  |              |  |  |  |  |  |
| Lights             |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | Vent              |  | 0       |  | 0       |  |  |  |  |  |              |  |  |  |  |  |
| People             |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | Exhaust           |  | 0       |  | 0       |  |  |  |  |  |              |  |  |  |  |  |
| Misc               |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | Rm Exh            |  | 0       |  | 0       |  |  |  |  |  |              |  |  |  |  |  |
| Sub Total ==>      |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0.00           |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | Auxil             |  | 0       |  | 0       |  |  |  |  |  |              |  |  |  |  |  |
| Engineering CKS    |  |        |  |       |                        |         |  |       |  |                |  |         |  |            |                       |           |  |          |  |                   |  |         |  |         |  |  |  |  |  |              |  |  |  |  |  |
| Ceiling Load       |  | 0.02   |  | -0.02 |                        | 0       |  | 0.02  |  | 0              |  | 0       |  | -0.01      |                       | 0         |  | 0        |  | % OA              |  | 0.0     |  | 0.0     |  |  |  |  |  |              |  |  |  |  |  |
| Ventilation Load   |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | Lps/m²            |  | 0.24    |  | 0.24    |  |  |  |  |  |              |  |  |  |  |  |
| Adj Air Trans Heat |  | 0      |  | 0.00  |                        | 0       |  | 0     |  | 0              |  | 0       |  | 0          |                       | 0         |  | 0        |  | Lps/kW            |  | 4.42    |  | 4.42    |  |  |  |  |  |              |  |  |  |  |  |
| Dehumid. Ov Sizing |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | m²/kW             |  | 18.44   |  | -2.51   |  |  |  |  |  |              |  |  |  |  |  |
| Ov/Undr Sizing     |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  | W/m²              |  | 54.19   |  | -2.51   |  |  |  |  |  |              |  |  |  |  |  |
| Exhaust Heat       |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  |                   |  |         |  |         |  |  |  |  |  |              |  |  |  |  |  |
| Sup. Fan Heat      |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  |                   |  |         |  |         |  |  |  |  |  |              |  |  |  |  |  |
| Ret. Fan Heat      |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  |                   |  |         |  |         |  |  |  |  |  |              |  |  |  |  |  |
| Duct Heat Pkup     |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.00      |  | 0        |  |                   |  |         |  |         |  |  |  |  |  |              |  |  |  |  |  |
| Reheat at Design   |  | 0.00   |  | 0.00  |                        | 0       |  | 0.00  |  | 0              |  | 0       |  | 0.00       |                       | 0.19      |  | 0        |  |                   |  |         |  |         |  |  |  |  |  |              |  |  |  |  |  |
| Grand Total ==>    |  | 0.02   |  | 0.34  |                        | 0.36    |  | 0.02  |  | 100.00         |  | 100.00  |  | -0.01      |                       | -0.02     |  | 100.00   |  | No. People        |  | 0       |  |         |  |  |  |  |  |              |  |  |  |  |  |

| COOLING COIL SELECTION |  |           |  |              |  |               |  |               |  | HEATING COIL SELECTION |  |         |  |          |  |          |  |              |  |      |  |      |  |
|------------------------|--|-----------|--|--------------|--|---------------|--|---------------|--|------------------------|--|---------|--|----------|--|----------|--|--------------|--|------|--|------|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter DBWB/HR |  | Leave DBWB/HR |  | Gross Total            |  | Glass   |  | Main Htg |  | Capacity |  | Coil Airflow |  | Ent  |  | Lvg  |  |
| kW                     |  | kW        |  | L/s          |  | °C            |  | °C            |  | °C g/kg                |  | m² (%)  |  | kW       |  | kW       |  | L/s          |  | °C   |  | °C   |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 0        |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.36                   |  | 0.36      |  | 2            |  | 25.7          |  | 12.8          |  | 14.3 6.4               |  | 3.4 1.4 |  | 7        |  | 0.0      |  | 2            |  | 20.8 |  | 30.0 |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.0 0.0 |  | 34       |  | 0.0      |  | 0            |  | 0.0  |  | 0.0  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 0.0 0.0                |  | 0.      |  |          |  |          |  |              |  |      |  |      |  |



## Room Checksums

By GOCSA

FC0203 02 ESTAR PERSONAL V 1/125

| COOLING COIL PEAK                                     |  |                    |  |           |  |                  |  |                |  | CLG SPACE PEAK         |  |                    |  | HEATING COIL PEAK              |  |                    |  | TEMPERATURES   |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--------------------|--|-----------|--|------------------|--|----------------|--|------------------------|--|--------------------|--|--------------------------------|--|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peaked at Time: Outside Air: OADB/WB/HR: 36 / 21 / 11 |  |                    |  |           |  |                  |  |                |  | Mo/Hr: 7 / 14 OADB: 36 |  |                    |  | Mo/Hr: Heating Design OADB: -5 |  |                    |  | SADB<br>Plenum<br>Return<br>Ret/OA<br>Fn MtrTD<br>Fn BidTD<br>Fn Frict |  |  |  | Cooling<br>15.0<br>24.3<br>24.3<br>24.3<br>0.0<br>0.0<br>0.0 |  |  |  | Heating<br>23.5<br>21.9<br>21.9<br>21.9<br>0.0<br>0.0<br>0.0 |  |  |  |
| Space Sens. + Lat.                                    |  | Plenum Sens. + Lat |  | Net Total |  | Percent Of Total |  | Space Sensible |  | Percent Of Total       |  | Envelope Loads     |  | Space Peak Space Sens          |  | Coil Peak Tot Sens |  | Percent Of Total   |  |  |  |  |  |  |  |  |  |  |  |
| kW  |  | kW                 |  | kW        |  | %                |  | kW             |  | %                      |  |                    |  | kW                             |  | kW                 |  | %  |  |  |  |  |  |  |  |  |  |  |  |
| Envelope Loads  |  |                    |  |           |  |                  |  |                |  |                        |  |                    |  |                                |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Solar   |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | Skylite Solar      |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Cond  |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | Skylite Cond       |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Roof Cond   |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | Roof Cond          |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Glass Solar   |  | 0.60               |  | 0.60      |  | 39               |  | 0.60           |  | 45                     |  | Glass Solar        |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Glass Cond  |  | 0.04               |  | 0.04      |  | 3                |  | 0.04           |  | 3                      |  | Glass Cond         |  | -0.15                          |  | -0.15              |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Wall Cond   |  | 0.01               |  | 0.01      |  | 1                |  | 0.01           |  | 1                      |  | Wall Cond          |  | -0.07                          |  | -0.10              |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Partition   |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | Partition          |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Exposed Floor   |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | Exposed Floor      |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Infiltration  |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | Infiltration       |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>   |  | 0.65               |  | 0.00      |  | 42               |  | 0.65           |  | 49                     |  | Sub Total ==>      |  | -0.22                          |  | -0.25              |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Internal Loads  |  |                    |  |           |  |                  |  |                |  |                        |  |                    |  |                                |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lights  |  | 0.11               |  | 0.14      |  | 9                |  | 0.11           |  | 8                      |  | Lights             |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| People  |  | 0.40               |  | 0.40      |  | 26               |  | 0.00           |  | 16                     |  | People             |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Misc  |  | 0.35               |  | 0.35      |  | 23               |  | 0.35           |  | 26                     |  | Misc               |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>   |  | 0.86               |  | 0.89      |  | 58               |  | 0.68           |  | 51                     |  | Sub Total ==>      |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Engineering CKS                                       |  |                    |  |           |  |                  |  |                |  |                        |  |                    |  |                                |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ceiling Load  |  | 0.01               |  | -0.01     |  | 0                |  | 0.01           |  | 1                      |  | Ceiling Load       |  | 0.00                           |  | 0                  |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Ventilation Load                                      |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | Ventilation Load   |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat                                    |  | 0                  |  | 0         |  | 0                |  | 0              |  | 0                      |  | Adj Air Trans Heat |  | 0                              |  | 0                  |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing                                    |  | 0.00               |  | 0         |  | 0                |  | 0.00           |  | 0                      |  | Ov/Undr Sizing     |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing  |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | Exhaust Heat       |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Exhaust Heat  |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | OA Preheat Diff.   |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat   |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | RA Preheat Diff.   |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat   |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | Additional Reheat  |  | 0.00                           |  | 0.00               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Duct Heat PkUp  |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | System Plenum Heat |  | 0.01                           |  | 0.01               |  | 0  |  |  |  |  |  |  |  |  |  |  |  |
| Reheat at Design                                      |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | Grand Total ==>    |  | -0.22                          |  | -0.24              |  | 100.00   |  |  |  |  |  |  |  |  |  |  |  |
| Grand Total ==>                                       |  | 1.52               |  | 0.02      |  | 1.54             |  | 1.34           |  | 100.00                 |  | Grand Total ==>    |  | -0.22                          |  | -0.24              |  | 100.00   |  |  |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |           |  |              |  |                |  |                |  | HEATING COIL SELECTION |  |           |  |          |  |              |  |         |  |
|------------------------|--|-----------|--|--------------|--|----------------|--|----------------|--|------------------------|--|-----------|--|----------|--|--------------|--|---------|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter DB/WB/HR |  | Leave DB/WB/HR |  | Gross Total            |  | Glass     |  | Capacity |  | Coil Airflow |  | Ent Lvg |  |
| kW                     |  | kW        |  | L/s          |  | °C °C g/kg     |  | °C °C g/kg     |  | m²                     |  | %         |  | kW       |  | L/s          |  | °C      |  |
| 1.54                   |  | 1.36      |  | 129          |  | 15.0 24.3 9.7  |  | 15.0 13.3 9.7  |  | 12                     |  | Floor     |  | -0.2     |  | 129          |  | 23.5    |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0 0.0 0.0    |  | 0.0 0.0 0.0    |  | 33                     |  | Part      |  | 0.0      |  | 0            |  | 0.0     |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0 0.0 0.0    |  | 0.0 0.0 0.0    |  | 0                      |  | ExFlr     |  | 0.0      |  | 0            |  | 0.0     |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0 0.0 0.0    |  | 0.0 0.0 0.0    |  | 0                      |  | Roof Wall |  | 0.0      |  | 0            |  | 0.0     |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0 0.0 0.0    |  | 0.0 0.0 0.0    |  | 0                      |  | Humidif   |  | 0.0      |  | 0            |  | 0.0     |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0 0.0 0.0    |  | 0.0 0.0 0.0    |  | 0                      |  | Opt Vent  |  | 0.0      |  | 0            |  | 0.0     |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0 0.0 0.0    |  | 0.0 0.0 0.0    |  | 0                      |  | Total     |  | -0.2     |  | 0            |  | 0.0     |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0 0.0 0.0    |  | 0.0 0.0 0.0    |  | 0                      |  | Total     |  | -0.2     |  | 0            |  | 0.0     |  |



Room Checksums

By GOCSA

FC0203 03 PASILLO V 2/1

| COOLING COIL PEAK            |  |              |              | CLG SPACE PEAK                   |          |          |          | HEATING COIL PEAK              |            |           |          | TEMPERATURES |            |         |         |
|------------------------------|--|--------------|--------------|----------------------------------|----------|----------|----------|--------------------------------|------------|-----------|----------|--------------|------------|---------|---------|
| Peaked at Time: Outside Air: |  |              |              | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |          |          |          | Mo/Hr: Heating Design OADB: -5 |            |           |          |              |            |         |         |
| Sens. + Lat.                 |  | Space        | Plenum       | Net                              |          | Space    | Percent  | Space Peak                     |            | Coil Peak | Percent  | SADB         |            | Cooling | Heating |
| Sens. + Lat.                 |  | Sens. + Lat. | Sens. + Lat. | Total                            | Of Total | Sensible | Of Total | Space Sens                     | Space Sens | Tot Sens  | Of Total | Plenum       | Plenum     | 24.3    | 44.5    |
| Sens. + Lat.                 |  | kW           | kW           | kW                               | (%)      | kW       | (%)      | kW                             | kW         | kW        | (%)      | Return       | Return     | 24.3    | 21.9    |
| Sens. + Lat.                 |  |              |              |                                  |          |          |          |                                |            |           |          | Ret/OA       | Ret/OA     | 24.3    | 21.9    |
| Envelope Loads               |  |              |              |                                  |          |          |          |                                |            |           |          | Fn MtrTD     | Fn MtrTD   | 0.0     | 0.0     |
| Skylite Solar                |  | 0.00         | 0.00         | 0.00                             | 0        | 0.00     | 0        | 0.00                           | 0.00       | 0.00      | 0        | Fn BidTD     | Fn BidTD   | 0.0     | 0.0     |
| Skylite Cond                 |  | 0.00         | 0.00         | 0.00                             | 0        | 0.00     | 0        | 0.00                           | 0.00       | 0.00      | 0        | Fn Frict     | Fn Frict   | 0.0     | 0.0     |
| Roof Cond                    |  | 0.00         | 0.00         | 0.00                             | 0        | 0.00     | 0        | 0.00                           | 0.00       | 0.00      | 0        |              |            |         |         |
| Glass Solar                  |  | 0.00         | 0.00         | 0.00                             | 0        | 0.00     | 0        | 0.00                           | 0.00       | 0.00      | 0        |              |            |         |         |
| Glass Cond                   |  | 0.00         | 0.00         | 0.00                             | 0        | 0.00     | 0        | 0.00                           | 0.00       | 0.00      | 0        |              |            |         |         |
| Wall Cond                    |  | 0.00         | 0.00         | 0.00                             | 0        | 0.00     | 0        | 0.00                           | 0.00       | 0.00      | 0        |              |            |         |         |
| Partition                    |  | 0.00         | 0.00         | 0.00                             | 0        | 0.00     | 0        | 0.00                           | 0.00       | 0.00      | 0        |              |            |         |         |
| Exposed Floor                |  | -0.01        | 0.00         | -0.01                            | 0        | -0.01    | 0        | 0.00                           | -0.28      | 0.00      | 0        |              |            |         |         |
| Infiltration                 |  | 0.00         | 0.00         | 0.00                             | 0        | 0.00     | 0        | 0.00                           | 0.00       | 0.00      | 0        |              |            |         |         |
| Sub Total ==>                |  | -0.01        | 0.00         | -0.01                            | 0        | -0.01    | 0        | -0.28                          | -0.28      | -0.28     | 0        |              |            |         |         |
| Internal Loads               |  |              |              |                                  |          |          |          |                                |            |           |          |              |            |         |         |
| Lights                       |  | 0.08         | 0.02         | 0.10                             | 0        | 0.08     | 0        | 0.00                           | 0.00       | 0.00      | 0        |              |            |         |         |
| People                       |  | 0.24         | 0.00         | 0.24                             | 0        | 0.13     | 0        | 0.00                           | 0.00       | 0.00      | 0        |              |            |         |         |
| Misc                         |  | 0.00         | 0.00         | 0.00                             | 0        | 0.00     | 0        | 0.00                           | 0.00       | 0.00      | 0        |              |            |         |         |
| Sub Total ==>                |  | 0.32         | 0.02         | 0.34                             | 0        | 0.21     | 0        | 0.00                           | 0.00       | 0.00      | 0        |              |            |         |         |
| Ceiling Load                 |  | 0.01         | -0.01        | 0.00                             | 0        | 0.01     | 0        | 0.00                           | 0.00       | 0         | 0        |              |            |         |         |
| Ventilation Load             |  | 0.00         | 0.00         | 0.00                             | 0        | 0.00     | 0        | 0.00                           | 0.00       | 0.00      | 0        |              |            |         |         |
| Adj Air Trans Heat           |  | 0            | 0.00         | 0                                | 0        | 0        | 0        | 0                              | 0          | 0         | 0        |              |            |         |         |
| Dehumid. Ov Sizing           |  |              |              | 0                                | 0        |          | 0        |                                |            |           |          |              |            |         |         |
| Ov/Undr Sizing               |  | 0.00         | 0.00         | 0.00                             | 0        | 0.00     | 0        | 0.00                           | 0.00       | 0.00      | 0        |              |            |         |         |
| Exhaust Heat                 |  |              | 0.00         | 0.00                             | 0        |          | 0        |                                |            |           | 0        |              |            | 0.73    | 0.73    |
| Sup. Fan Heat                |  |              | 0.00         | 0.00                             | 0        |          | 0        |                                |            |           | 0        |              |            | 32.43   |         |
| Ret. Fan Heat                |  |              | 0.00         | 0.00                             | 0        |          | 0        |                                |            |           | 0        |              |            |         |         |
| Duct Heat Pkup               |  |              | 0.00         | 0.00                             | 0        |          | 0        |                                |            |           | 0        |              |            | 44.20   |         |
| Reheat at Design             |  |              | 0.00         | 0.00                             | 0        |          | 0        |                                |            |           | 0        |              |            | 22.61   | -18.97  |
| Grand Total ==>              |  | 0.32         | 0.01         | 0.33                             | 100.00   | 0.21     | 100.00   | -0.28                          | -0.28      | -0.28     | 100.00   | No. People   | No. People | 1       |         |

| COOLING COIL SELECTION |           |              |       |       | AREAS       |       |  |   |   |
|------------------------|-----------|--------------|-------|-------|-------------|-------|--|---|---|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | Leave | Gross Total | Glass |  |   |   |
| kW                     | kW        | L/s          | °C    | °C    | m²          | (%)   |  |   |   |
| Main Clg               | 0.33      | 0.22         | 11    | 24.3  | Floor       | 15    |  |   |   |
| Aux Clg                | 0.00      | 0.00         | 0     | 0.0   | Part        | 60    |  |   |   |
| Opt Vent               | 0.00      | 0.00         | 0     | 0.0   | ExFlr       | 15    |  |   |   |
| Total                  | 0.33      |              |       |       | Roof        | 0     |  | 0 | 0 |
|                        |           |              |       |       | Wall        | 0     |  | 0 | 0 |

| HEATING COIL SELECTION |              |     |      |      |
|------------------------|--------------|-----|------|------|
| Capacity               | Coil Airflow | Ent | Lvg  |      |
| kW                     | L/s          | °C  | °C   |      |
| Main Htg               | -0.3         | 11  | 21.9 | 44.5 |
| Aux Htg                | 0.0          | 0   | 0.0  | 0.0  |
| Preheat                | 0.0          | 0   | 0.0  | 0.0  |
| Humidif                | 0.0          | 0   | 0.0  | 0.0  |
| Opt Vent               | 0.0          | 0   | 0.0  | 0.0  |
| Total                  | -0.3         |     |      |      |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums repd11 Aug 2024



Room Checksums

By GOCSA

FC0203 04 LIMPIEZA EX 4/25

| COOLING COIL PEAK  |  |              |  |       |                         |          |  |          |  | CLG SPACE PEAK     |  |            |  |           |                       |          |  |   |  | HEATING COIL PEAK                    |  |         |  |  |                    |  |  |  |  | TEMPERATURES       |  |  |  |  |  |  |  |  |  |
|--------------------|--|--------------|--|-------|-------------------------|----------|--|----------|--|--------------------|--|------------|--|-----------|-----------------------|----------|--|---|--|--------------------------------------|--|---------|--|--|--------------------|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |              |  |       | Mo/Hr: 7 / 15           |          |  |          |  | Mo/Hr: 7 / 1       |  |            |  |           | Mo/Hr: Heating Design |          |  |   |  | SADB                                 |  |         |  |  | Cooling            |  |  |  |  | Heating            |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |              |  |       | OADBWB/HR: 36 / 22 / 11 |          |  |          |  | OADB: 20           |  |            |  |           | OADB: -5              |          |  |   |  | Plenum                               |  |         |  |  | 24.3               |  |  |  |  | 25.2               |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  | Plenum       |  | Net   |                         | Percent  |  | Space    |  | Percent            |  | Space Peak |  | Coil Peak |                       | Percent  |  | SADB <th colspan="2">Cooling<th colspan="2">Heating</th></th> |  | Cooling <th colspan="2">Heating</th> |  | Heating |  |  |                    |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sensible |  | Of Total           |  | Space Sens |  | Tot Sens  |                       | Of Total |  | Return <th colspan="2">24.3<th colspan="2">21.9</th></th>     |  | 24.3 <th colspan="2">21.9</th>       |  | 21.9    |  |  |                    |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  | Sens. + Lat. |  | kW    |                         | kW       |  | kW       |  | kW                 |  | kW         |  | kW        |                       | kW       |  | Ret/OA <th colspan="2">24.3<th colspan="2">21.9</th></th>     |  | 24.3 <th colspan="2">21.9</th>       |  | 21.9    |  |  |                    |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  | Sens. + Lat. |  | kW    |                         | kW       |  | kW       |  | kW                 |  | kW         |  | kW        |                       | kW       |  | Fn MtrTD <th colspan="2">0.0</th> <th colspan="2">0.0</th>    |  | 0.0                                  |  | 0.0     |  |  |                    |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  | Sens. + Lat. |  | kW    |                         | kW       |  | kW       |  | kW                 |  | kW         |  | kW        |                       | kW       |  | Fn BidTD <th colspan="2">0.0</th> <th colspan="2">0.0</th>    |  | 0.0                                  |  | 0.0     |  |  |                    |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  | Sens. + Lat. |  | kW    |                         | kW       |  | kW       |  | kW                 |  | kW         |  | kW        |                       | kW       |  | Fn Frict <th colspan="2">0.0</th> <th colspan="2">0.0</th>    |  | 0.0                                  |  | 0.0     |  |  |                    |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |              |  |       |                         |          |  |          |  | Envelope Loads     |  |            |  |           |                       |          |  |   |  | Envelope Loads                       |  |         |  |  |                    |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |              |  |       | Skylite Solar           |          |  |          |  | Skylite Solar      |  |            |  |           | Skylite Solar         |          |  |   |  | Skylite Solar                        |  |         |  |  | Skylite Solar      |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |              |  |       | Skylite Cond            |          |  |          |  | Skylite Cond       |  |            |  |           | Skylite Cond          |          |  |   |  | Skylite Cond                         |  |         |  |  | Skylite Cond       |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |              |  |       | Roof Cond               |          |  |          |  | Roof Cond          |  |            |  |           | Roof Cond             |          |  |   |  | Roof Cond                            |  |         |  |  | Roof Cond          |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |              |  |       | Glass Solar             |          |  |          |  | Glass Solar        |  |            |  |           | Glass Solar           |          |  |   |  | Glass Solar                          |  |         |  |  | Glass Solar        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |              |  |       | Glass Cond              |          |  |          |  | Glass Cond         |  |            |  |           | Glass Cond            |          |  |   |  | Glass Cond                           |  |         |  |  | Glass Cond         |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |              |  |       | Wall Cond               |          |  |          |  | Wall Cond          |  |            |  |           | Wall Cond             |          |  |   |  | Wall Cond                            |  |         |  |  | Wall Cond          |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Partition          |  |              |  |       | Partition               |          |  |          |  | Partition          |  |            |  |           | Partition             |          |  |   |  | Partition                            |  |         |  |  | Partition          |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |              |  |       | Exposed Floor           |          |  |          |  | Exposed Floor      |  |            |  |           | Exposed Floor         |          |  |   |  | Exposed Floor                        |  |         |  |  | Exposed Floor      |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |              |  |       | Infiltration            |          |  |          |  | Infiltration       |  |            |  |           | Infiltration          |          |  |   |  | Infiltration                         |  |         |  |  | Infiltration       |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |              |  |       | Sub Total ==>           |          |  |          |  | Sub Total ==>      |  |            |  |           | Sub Total ==>         |          |  |   |  | Sub Total ==>                        |  |         |  |  | Sub Total ==>      |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |              |  |       |                         |          |  |          |  | Internal Loads     |  |            |  |           |                       |          |  |   |  | Internal Loads                       |  |         |  |  |                    |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Lights             |  |              |  |       | Lights                  |          |  |          |  | Lights             |  |            |  |           | Lights                |          |  |   |  | Lights                               |  |         |  |  | Lights             |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| People             |  |              |  |       | People                  |          |  |          |  | People             |  |            |  |           | People                |          |  |   |  | People                               |  |         |  |  | People             |  |  |  |  | People             |  |  |  |  |  |  |  |  |  |
| Misc               |  |              |  |       | Misc                    |          |  |          |  | Misc               |  |            |  |           | Misc                  |          |  |   |  | Misc                                 |  |         |  |  | Misc               |  |  |  |  | Misc               |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |              |  |       | Sub Total ==>           |          |  |          |  | Sub Total ==>      |  |            |  |           | Sub Total ==>         |          |  |   |  | Sub Total ==>                        |  |         |  |  | Sub Total ==>      |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  |
| Engineering CKS    |  |              |  |       |                         |          |  |          |  | Engineering CKS    |  |            |  |           |                       |          |  |   |  | Engineering CKS                      |  |         |  |  |                    |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |              |  |       | Ceiling Load            |          |  |          |  | Ceiling Load       |  |            |  |           | Ceiling Load          |          |  |   |  | Ceiling Load                         |  |         |  |  | Ceiling Load       |  |  |  |  | Ceiling Load       |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |              |  |       | Ventilation Load        |          |  |          |  | Ventilation Load   |  |            |  |           | Ventilation Load      |          |  |   |  | Ventilation Load                     |  |         |  |  | Ventilation Load   |  |  |  |  | Ventilation Load   |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |              |  |       | Adj Air Trans Heat      |          |  |          |  | Adj Air Trans Heat |  |            |  |           | Adj Air Trans Heat    |          |  |   |  | Adj Air Trans Heat                   |  |         |  |  | Adj Air Trans Heat |  |  |  |  | Adj Air Trans Heat |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |              |  |       | Dehumid. Ov Sizing      |          |  |          |  | Dehumid. Ov Sizing |  |            |  |           | Dehumid. Ov Sizing    |          |  |   |  | Dehumid. Ov Sizing                   |  |         |  |  | Dehumid. Ov Sizing |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |              |  |       | Ov/Undr Sizing          |          |  |          |  | Ov/Undr Sizing     |  |            |  |           | Ov/Undr Sizing        |          |  |   |  | Ov/Undr Sizing                       |  |         |  |  | Ov/Undr Sizing     |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |              |  |       | Exhaust Heat            |          |  |          |  | Exhaust Heat       |  |            |  |           | Exhaust Heat          |          |  |   |  | Exhaust Heat                         |  |         |  |  | Exhaust Heat       |  |  |  |  | Exhaust Heat       |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |              |  |       | Sup. Fan Heat           |          |  |          |  | Sup. Fan Heat      |  |            |  |           | Sup. Fan Heat         |          |  |   |  | Sup. Fan Heat                        |  |         |  |  | Sup. Fan Heat      |  |  |  |  | Sup. Fan Heat      |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |              |  |       | Ret. Fan Heat           |          |  |          |  | Ret. Fan Heat      |  |            |  |           | Ret. Fan Heat         |          |  |   |  | Ret. Fan Heat                        |  |         |  |  | Ret. Fan Heat      |  |  |  |  | Ret. Fan Heat      |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |              |  |       | Duct Heat Pkup          |          |  |          |  | Duct Heat Pkup     |  |            |  |           | Duct Heat Pkup        |          |  |   |  | Duct Heat Pkup                       |  |         |  |  | Duct Heat Pkup     |  |  |  |  | Duct Heat Pkup     |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |              |  |       | Reheat at Design        |          |  |          |  | Reheat at Design   |  |            |  |           | Reheat at Design      |          |  |   |  | Reheat at Design                     |  |         |  |  | Reheat at Design   |  |  |  |  | Reheat at Design   |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |              |  |       | Grand Total ==>         |          |  |          |  | Grand Total ==>    |  |            |  |           | Grand Total ==>       |          |  |   |  | Grand Total ==>                      |  |         |  |  | Grand Total ==>    |  |  |  |  | Grand Total ==>    |  |  |  |  |  |  |  |  |  |
| No. People         |  |              |  |       |                         |          |  |          |  | No. People         |  |            |  |           |                       |          |  |   |  | No. People                           |  |         |  |  |                    |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| 0                  |  |              |  |       |                         |          |  |          |  | 0                  |  |            |  |           |                       |          |  |   |  | 0                                    |  |         |  |  |                    |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Lvg  |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C   |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 25.2 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  |



## Room Checksums

By GOCSA

FC0203 05 RESIDUOS EX 4/25

| COOLING COIL PEAK            |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK                         |  |                       |  | HEATING COIL PEAK              |  |                      |  | TEMPERATURES      |  |                      |  |               |  |                       |  |                      |  |  |  |
|------------------------------|--|--|--|--|--|--|--|--|--|--|--|-----------------------|--|--------------------------------|--|----------------------|--|-------------------|--|----------------------|--|---------------|--|-----------------------|--|----------------------|--|--|--|
| Peaked at Time: Outside Air: |  |  |  |  |  |  |  |  |  | Mo/Hr: 7 / 15 OADB/WB/HR: 36 / 22 / 11 |  |                       |  | Mo/Hr: Heating Design OADB: -5 |  |                      |  | SADB              |  |                      |  | Cooling       |  | Heating               |  |                      |  |  |  |
| Sens. + Lat.                 |  |  |  |  |  |  |  |  |  | Space kW                               |  | Plenum Sens. + Lat kW |  | Net Total kW                   |  | Percent Of Total (%) |  | Space Sensible kW |  | Percent Of Total (%) |  | Space Peak kW |  | Coil Peak Tot Sens kW |  | Percent Of Total (%) |  |  |  |
| Envelope Loads               |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Skylite Solar                |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Skylite Cond                 |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Roof Cond                    |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Glass Solar                  |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Glass Cond                   |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Wall Cond                    |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Partition                    |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Exposed Floor                |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Infiltration                 |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Sub Total ==>                |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Internal Loads               |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Lights                       |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| People                       |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Misc                         |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Sub Total ==>                |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Ceiling Load                 |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Ventilation Load             |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Adj Air Trans Heat           |  |  |  |  |  |  |  |  |  | 0                                      |  | 0                     |  | 0                              |  | 0                    |  | 0                 |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Dehumid. Ov Sizing           |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Ov/Undr Sizing               |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Exhaust Heat                 |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Sup. Fan Heat                |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Ret. Fan Heat                |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Duct Heat PkUp               |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Reheat at Design             |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 0                    |  | 0.00              |  | 0                    |  | 0.00          |  | 0.00                  |  | 0                    |  |  |  |
| Grand Total ==>              |  |  |  |  |  |  |  |  |  | 0.00                                   |  | 0.00                  |  | 0.00                           |  | 100.00               |  | 0.00              |  | 100.00               |  | 0.00          |  | 100.00                |  | 0                    |  |  |  |
| ENGINEERING CKS              |  |  |  |  |  |  |  |  |  | ENGINEERING CKS                        |  |                       |  |                                |  |                      |  |                   |  | ENGINEERING CKS      |  |               |  |                       |  |                      |  |  |  |
| % OA                         |  |  |  |  |  |  |  |  |  | % OA                                   |  |                       |  |                                |  |                      |  |                   |  | % OA                 |  |               |  |                       |  |                      |  |  |  |
| Lps/m²                       |  |  |  |  |  |  |  |  |  | Lps/m²                                 |  |                       |  |                                |  |                      |  |                   |  | Lps/m²               |  |               |  |                       |  |                      |  |  |  |
| Lps/kW                       |  |  |  |  |  |  |  |  |  | Lps/kW                                 |  |                       |  |                                |  |                      |  |                   |  | Lps/kW               |  |               |  |                       |  |                      |  |  |  |
| m²/kW                        |  |  |  |  |  |  |  |  |  | m²/kW                                  |  |                       |  |                                |  |                      |  |                   |  | m²/kW                |  |               |  |                       |  |                      |  |  |  |
| W/m²                         |  |  |  |  |  |  |  |  |  | W/m²                                   |  |                       |  |                                |  |                      |  |                   |  | W/m²                 |  |               |  |                       |  |                      |  |  |  |
| No. People                   |  |  |  |  |  |  |  |  |  | No. People                             |  |                       |  |                                |  |                      |  |                   |  | No. People           |  |               |  |                       |  |                      |  |  |  |

| COOLING COIL SELECTION |  |           |  |              |  | HEATING COIL SELECTION |  |                |  |       |  |
|------------------------|--|-----------|--|--------------|--|------------------------|--|----------------|--|-------|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter DB/WB/HR         |  | Leave DB/WB/HR |  | Glass |  |
| kW                     |  | kW        |  | L/s          |  | °C                     |  | °C             |  | m²    |  |
| Main Clg               |  | 0.00      |  | 0            |  | 24.3                   |  | 12.8           |  | 4     |  |
| Aux Clg                |  | 0.00      |  | 0            |  | 0.0                    |  | 0.0            |  | 27    |  |
| Opt Vent               |  | 0.00      |  | 0            |  | 0.0                    |  | 0.0            |  | 0     |  |
| Total                  |  | 0.00      |  | 0            |  | 0.0                    |  | 0.0            |  | 0     |  |

|          |  |      |  |   |  |      |  |      |  |    |  |
|----------|--|------|--|---|--|------|--|------|--|----|--|
| Main Clg |  | 0.00 |  | 0 |  | 24.3 |  | 12.8 |  | 4  |  |
| Aux Clg  |  | 0.00 |  | 0 |  | 0.0  |  | 0.0  |  | 27 |  |
| Opt Vent |  | 0.00 |  | 0 |  | 0.0  |  | 0.0  |  | 0  |  |
| Total    |  | 0.00 |  | 0 |  | 0.0  |  | 0.0  |  | 0  |  |

|          |  |     |  |   |  |      |  |      |  |
|----------|--|-----|--|---|--|------|--|------|--|
| Main Htg |  | 0.0 |  | 0 |  | 21.9 |  | 25.2 |  |
| Aux Htg  |  | 0.0 |  | 0 |  | 0.0  |  | 0.0  |  |
| Preheat  |  | 0.0 |  | 0 |  | 0.0  |  | 0.0  |  |
| Humidif  |  | 0.0 |  | 0 |  | 0.0  |  | 0.0  |  |
| Opt Vent |  | 0.0 |  | 0 |  | 0.0  |  | 0.0  |  |
| Total    |  | 0.0 |  | 0 |  | 0.0  |  | 0.0  |  |



## Room Checksums

By GOCSA

## FC0203 06 VESTUARIO PERSONAL EX 4/50

| COOLING COIL PEAK            |  |                    |  |  |  |                |  |                       |  | CLG SPACE PEAK        |  |                                |  | HEATING COIL PEAK |  |            |  | TEMPERATURES |  |         |  |
|------------------------------|--|--------------------|--|--|--|----------------|--|-----------------------|--|-----------------------|--|--------------------------------|--|-------------------|--|------------|--|--------------|--|---------|--|
| Peaked at Time: Outside Air: |  |                    |  | Mo/Hr: 7 / 15 OADB/WB/HR: 36 / 22 / 11 |  |                |  | Mo/Hr: 7 / 1 OADB: 20 |  |                       |  | Mo/Hr: Heating Design OADB: -5 |  |                   |  |            |  |              |  |         |  |
| Space Sens. + Lat.           |  | Plenum Sens. + Lat |  | Net Total                              |  | Space Sensible |  | Percent Of Total      |  | Space Peak Space Sens |  | Coil Peak Tot Sens             |  | Percent Of Total  |  | SADB       |  | Cooling      |  | Heating |  |
| kW                           |  | kW                 |  | kW                                     |  | kW             |  | %                     |  | kW                    |  | kW                             |  | %                 |  |            |  |              |  |         |  |
| Envelope Loads               |  |                    |  |  |  |                |  |                       |  |                       |  |                                |  |                   |  |            |  |              |  |         |  |
| Skylite Solar                |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 12.8         |  | 25.2    |  |
| Skylite Cond                 |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 24.3         |  | 21.9    |  |
| Roof Cond                    |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 24.3         |  | 21.9    |  |
| Glass Solar                  |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 24.3         |  | 21.9    |  |
| Glass Cond                   |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 0.0          |  | 0.0     |  |
| Wall Cond                    |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 0.0          |  | 0.0     |  |
| Partition                    |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 0.0          |  | 0.0     |  |
| Exposed Floor                |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 0.0          |  | 0.0     |  |
| Infiltration                 |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 0.0          |  | 0.0     |  |
| Sub Total ==>                |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 0.0          |  | 0.0     |  |
| Internal Loads               |  |                    |  |  |  |                |  |                       |  |                       |  |                                |  |                   |  |            |  |              |  |         |  |
| Lights                       |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 0            |  | 0       |  |
| People                       |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 0            |  | 0       |  |
| Misc                         |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 0            |  | 0       |  |
| Sub Total ==>                |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 0            |  | 0       |  |
| Ceiling Load                 |  |                    |  |  |  |                |  |                       |  |                       |  |                                |  |                   |  |            |  |              |  |         |  |
| Ventilation Load             |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 0            |  | 0       |  |
| Adj Air Trans Heat           |  | 0                  |  | 0.00                                   |  | 0              |  | 0                     |  | 0                     |  | 0                              |  | 0                 |  | 0.00       |  | 0.0          |  | 0.0     |  |
| Dehumid. Ov Sizing           |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 0.04         |  | 0.04    |  |
| Ov/Undr Sizing               |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 43,796.77    |  | 0.00    |  |
| Exhaust Heat                 |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  |              |  |         |  |
| Sup. Fan Heat                |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  |              |  |         |  |
| Ret. Fan Heat                |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  |              |  |         |  |
| Duct Heat PkUp               |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 155,889.69   |  | -0.14   |  |
| Reheat at Design             |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 0                     |  | 0.00                  |  | 0.00                           |  | 0                 |  | 0.00       |  | 0.00         |  |         |  |
| Grand Total ==>              |  | 0.00               |  | 0.00                                   |  | 0.00           |  | 100.00                |  | 0.00                  |  | 0.00                           |  | 100.00            |  | 0.00       |  | 0            |  |         |  |
| ENGINEERING CKS              |  |                    |  |  |  |                |  |                       |  |                       |  |                                |  |                   |  |            |  |              |  |         |  |
| % OA                         |  |                    |  |  |  |                |  |                       |  |                       |  |                                |  |                   |  | Cooling    |  | Heating      |  |         |  |
|                              |  |                    |  |  |  |                |  |                       |  |                       |  |                                |  |                   |  | 0.0        |  | 0.0          |  | 0.0     |  |
| Lps/m²                       |  |                    |  |  |  |                |  |                       |  |                       |  |                                |  |                   |  | 0.04       |  | 0.04         |  | 0.04    |  |
| Lps/kW                       |  |                    |  |  |  |                |  |                       |  |                       |  |                                |  |                   |  | 43,796.77  |  |              |  |         |  |
| m²/kW                        |  |                    |  |  |  |                |  |                       |  |                       |  |                                |  |                   |  | 155,889.69 |  |              |  |         |  |
| W/m²                         |  |                    |  |  |  |                |  |                       |  |                       |  |                                |  |                   |  | 0.00       |  | -0.14        |  |         |  |
| No. People                   |  |                    |  |  |  |                |  |                       |  |                       |  |                                |  |                   |  | 0          |  |              |  |         |  |

| COOLING COIL SELECTION |  |           |  |              |  |                |  |                |  | HEATING COIL SELECTION |  |        |  |          |  |
|------------------------|--|-----------|--|--------------|--|----------------|--|----------------|--|------------------------|--|--------|--|----------|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter DB/WB/HR |  | Leave DB/WB/HR |  | Gross Total            |  | Glass  |  | Lvg      |  |
| kW                     |  | kW        |  | L/s          |  | °C °C g/kg     |  | °C °C g/kg     |  | kW                     |  | m² (%) |  | °C       |  |
| 0.00                   |  | 0.00      |  | 0            |  | 24.3 15.0 7.8  |  | 12.8 10.6 7.8  |  | 8                      |  | Floor  |  | Main Htg |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0 0.0 0.0    |  | 0.0 0.0 0.0    |  | 36                     |  | Part   |  | Aux Htg  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0 0.0 0.0    |  | 0.0 0.0 0.0    |  | 0                      |  | ExFlr  |  | Preheat  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0 0.0 0.0    |  | 0.0 0.0 0.0    |  | 0                      |  | Roof   |  | Humidif  |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0 0.0 0.0    |  | 0.0 0.0 0.0    |  | 0                      |  | Wall   |  | Opt Vent |  |
| Total                  |  | 0.00      |  |              |  |                |  |                |  | 0                      |  | 0      |  | Total    |  |



Room Checksums

By GOCSA

FC0203 07 VESTUARIO PERSONAL EX 4/50

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK     |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK     |  |  |  |  |           |  |  |  |  | TEMPERATURES  |  |  |  |  |   |  |  |  |  |                                |  |  |  |  |      |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------|--|--|--|--|-----------------------|--|--|--|--|-----------------------|--|--|--|--|-----------|--|--|--|--|---|--|--|--|--|---|--|--|--|--|--------------------------------|--|--|--|--|------|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|----------------|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 1       |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB      |  |  |  |  | Cooling   |  |  |  |  | Heating   |  |  |  |  |                                |  |  |  |  |      |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 20           |  |  |  |  | OADB: -5              |  |  |  |  | OADB: -5              |  |  |  |  | Plenum    |  |  |  |  | 24.3  |  |  |  |  | 25.2  |  |  |  |  |                                |  |  |  |  |      |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net                |  |  |  |  | Space                 |  |  |  |  | Space Peak            |  |  |  |  | Coil Peak |  |  |  |  | Return <th colspan="5">24.3<th colspan="5">21.9</th></th> |  |  |  |  | 24.3 <th colspan="5">21.9</th>                            |  |  |  |  | 21.9                           |  |  |  |  |      |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                      |  |  |  |  | kW                 |  |  |  |  | Sensible              |  |  |  |  | kW                    |  |  |  |  | Tot Sens  |  |  |  |  | kW  |  |  |  |  | Ret/OA <th colspan="5">24.3<th colspan="5">21.9</th></th> |  |  |  |  | 24.3 <th colspan="5">21.9</th> |  |  |  |  | 21.9 |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Percent            |  |  |  |  | Percent                 |  |  |  |  | Percent            |  |  |  |  | Percent               |  |  |  |  | Percent               |  |  |  |  | Percent   |  |  |  |  | Fn MtrTD <th colspan="5">0.0<th colspan="5">0.0</th></th> |  |  |  |  | 0.0 <th colspan="5">0.0</th>                              |  |  |  |  | 0.0                            |  |  |  |  |      |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Of Total           |  |  |  |  | Of Total                |  |  |  |  | Of Total           |  |  |  |  | Of Total              |  |  |  |  | Of Total              |  |  |  |  | Of Total  |  |  |  |  | Fn BidTD <th colspan="5">0.0<th colspan="5">0.0</th></th> |  |  |  |  | 0.0 <th colspan="5">0.0</th>                              |  |  |  |  | 0.0                            |  |  |  |  |      |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                      |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                    |  |  |  |  | kW        |  |  |  |  | Fn Frict <th colspan="5">0.0<th colspan="5">0.0</th></th> |  |  |  |  | 0.0 <th colspan="5">0.0</th>                              |  |  |  |  | 0.0                            |  |  |  |  |      |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  | Envelope Loads     |  |  |  |  |                       |  |  |  |  | Envelope Loads        |  |  |  |  |           |  |  |  |  | Envelope Loads  |  |  |  |  |   |  |  |  |  | Envelope Loads                 |  |  |  |  |      |  |  |  |  | Envelope Loads     |  |  |  |  |  |  |  |  |  | Envelope Loads     |  |  |  |  |  |  |  |  |  | Envelope Loads     |  |  |  |  |  |  |  |  |  | Envelope Loads     |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  |                         |  |  |  |  | Skylite Solar      |  |  |  |  |                       |  |  |  |  | Skylite Solar         |  |  |  |  |           |  |  |  |  | Skylite Solar   |  |  |  |  |   |  |  |  |  | Skylite Solar                  |  |  |  |  |      |  |  |  |  | Skylite Solar      |  |  |  |  |  |  |  |  |  | Skylite Solar      |  |  |  |  |  |  |  |  |  | Skylite Solar      |  |  |  |  |  |  |  |  |  | Skylite Solar      |  |  |  |  |  |  |  |  |  | Skylite Solar  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  |                         |  |  |  |  | Skylite Cond       |  |  |  |  |                       |  |  |  |  | Skylite Cond          |  |  |  |  |           |  |  |  |  | Skylite Cond  |  |  |  |  |   |  |  |  |  | Skylite Cond                   |  |  |  |  |      |  |  |  |  | Skylite Cond       |  |  |  |  |  |  |  |  |  | Skylite Cond       |  |  |  |  |  |  |  |  |  | Skylite Cond       |  |  |  |  |  |  |  |  |  | Skylite Cond       |  |  |  |  |  |  |  |  |  | Skylite Cond   |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  |                         |  |  |  |  | Roof Cond          |  |  |  |  |                       |  |  |  |  | Roof Cond             |  |  |  |  |           |  |  |  |  | Roof Cond   |  |  |  |  |   |  |  |  |  | Roof Cond                      |  |  |  |  |      |  |  |  |  | Roof Cond          |  |  |  |  |  |  |  |  |  | Roof Cond          |  |  |  |  |  |  |  |  |  | Roof Cond          |  |  |  |  |  |  |  |  |  | Roof Cond          |  |  |  |  |  |  |  |  |  | Roof Cond      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  |                         |  |  |  |  | Glass Solar        |  |  |  |  |                       |  |  |  |  | Glass Solar           |  |  |  |  |           |  |  |  |  | Glass Solar   |  |  |  |  |   |  |  |  |  | Glass Solar                    |  |  |  |  |      |  |  |  |  | Glass Solar        |  |  |  |  |  |  |  |  |  | Glass Solar        |  |  |  |  |  |  |  |  |  | Glass Solar        |  |  |  |  |  |  |  |  |  | Glass Solar        |  |  |  |  |  |  |  |  |  | Glass Solar    |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  |                         |  |  |  |  | Glass Cond         |  |  |  |  |                       |  |  |  |  | Glass Cond            |  |  |  |  |           |  |  |  |  | Glass Cond  |  |  |  |  |   |  |  |  |  | Glass Cond                     |  |  |  |  |      |  |  |  |  | Glass Cond         |  |  |  |  |  |  |  |  |  | Glass Cond         |  |  |  |  |  |  |  |  |  | Glass Cond         |  |  |  |  |  |  |  |  |  | Glass Cond         |  |  |  |  |  |  |  |  |  | Glass Cond     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  |                         |  |  |  |  | Wall Cond          |  |  |  |  |                       |  |  |  |  | Wall Cond             |  |  |  |  |           |  |  |  |  | Wall Cond   |  |  |  |  |   |  |  |  |  | Wall Cond                      |  |  |  |  |      |  |  |  |  | Wall Cond          |  |  |  |  |  |  |  |  |  | Wall Cond          |  |  |  |  |  |  |  |  |  | Wall Cond          |  |  |  |  |  |  |  |  |  | Wall Cond          |  |  |  |  |  |  |  |  |  | Wall Cond      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  |                         |  |  |  |  | Partition          |  |  |  |  |                       |  |  |  |  | Partition             |  |  |  |  |           |  |  |  |  | Partition   |  |  |  |  |   |  |  |  |  | Partition                      |  |  |  |  |      |  |  |  |  | Partition          |  |  |  |  |  |  |  |  |  | Partition          |  |  |  |  |  |  |  |  |  | Partition          |  |  |  |  |  |  |  |  |  | Partition          |  |  |  |  |  |  |  |  |  | Partition      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  |                         |  |  |  |  | Exposed Floor      |  |  |  |  |                       |  |  |  |  | Exposed Floor         |  |  |  |  |           |  |  |  |  | Exposed Floor   |  |  |  |  |   |  |  |  |  | Exposed Floor                  |  |  |  |  |      |  |  |  |  | Exposed Floor      |  |  |  |  |  |  |  |  |  | Exposed Floor      |  |  |  |  |  |  |  |  |  | Exposed Floor      |  |  |  |  |  |  |  |  |  | Exposed Floor      |  |  |  |  |  |  |  |  |  | Exposed Floor  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  |                         |  |  |  |  | Infiltration       |  |  |  |  |                       |  |  |  |  | Infiltration          |  |  |  |  |           |  |  |  |  | Infiltration  |  |  |  |  |   |  |  |  |  | Infiltration                   |  |  |  |  |      |  |  |  |  | Infiltration       |  |  |  |  |  |  |  |  |  | Infiltration       |  |  |  |  |  |  |  |  |  | Infiltration       |  |  |  |  |  |  |  |  |  | Infiltration       |  |  |  |  |  |  |  |  |  | Infiltration   |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>         |  |  |  |  |           |  |  |  |  | Sub Total ==>   |  |  |  |  |   |  |  |  |  | Sub Total ==>                  |  |  |  |  |      |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  | Internal Loads     |  |  |  |  |                       |  |  |  |  | Internal Loads        |  |  |  |  |           |  |  |  |  | Internal Loads  |  |  |  |  |   |  |  |  |  | Internal Loads                 |  |  |  |  |      |  |  |  |  | Internal Loads     |  |  |  |  |  |  |  |  |  | Internal Loads     |  |  |  |  |  |  |  |  |  | Internal Loads     |  |  |  |  |  |  |  |  |  | Internal Loads     |  |  |  |  |  |  |  |  |  | Internal Loads |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  |                         |  |  |  |  | Lights             |  |  |  |  |                       |  |  |  |  | Lights                |  |  |  |  |           |  |  |  |  | Lights  |  |  |  |  |   |  |  |  |  | Lights                         |  |  |  |  |      |  |  |  |  | Lights             |  |  |  |  |  |  |  |  |  | Lights             |  |  |  |  |  |  |  |  |  | Lights             |  |  |  |  |  |  |  |  |  | Lights             |  |  |  |  |  |  |  |  |  | Lights         |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  |                         |  |  |  |  | People             |  |  |  |  |                       |  |  |  |  | People                |  |  |  |  |           |  |  |  |  | People  |  |  |  |  |   |  |  |  |  | People                         |  |  |  |  |      |  |  |  |  | People             |  |  |  |  |  |  |  |  |  | People             |  |  |  |  |  |  |  |  |  | People             |  |  |  |  |  |  |  |  |  | People             |  |  |  |  |  |  |  |  |  | People         |  |  |  |  |  |  |  |  |  | People |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  |                         |  |  |  |  | Misc               |  |  |  |  |                       |  |  |  |  | Misc                  |  |  |  |  |           |  |  |  |  | Misc  |  |  |  |  |   |  |  |  |  | Misc                           |  |  |  |  |      |  |  |  |  | Misc               |  |  |  |  |  |  |  |  |  | Misc               |  |  |  |  |  |  |  |  |  | Misc               |  |  |  |  |  |  |  |  |  | Misc               |  |  |  |  |  |  |  |  |  | Misc           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>         |  |  |  |  |           |  |  |  |  | Sub Total ==>   |  |  |  |  |   |  |  |  |  | Sub Total ==>                  |  |  |  |  |      |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  | Sub Total ==>      |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  | Ceiling Load       |  |  |  |  |                       |  |  |  |  | Ceiling Load          |  |  |  |  |           |  |  |  |  | Ceiling Load  |  |  |  |  |   |  |  |  |  | Ceiling Load                   |  |  |  |  |      |  |  |  |  | Ceiling Load       |  |  |  |  |  |  |  |  |  | Ceiling Load       |  |  |  |  |  |  |  |  |  | Ceiling Load       |  |  |  |  |  |  |  |  |  | Ceiling Load       |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  |                         |  |  |  |  | Ventilation Load   |  |  |  |  |                       |  |  |  |  | Ventilation Load      |  |  |  |  |           |  |  |  |  | Ventilation Load  |  |  |  |  |   |  |  |  |  | Ventilation Load               |  |  |  |  |      |  |  |  |  | Ventilation Load   |  |  |  |  |  |  |  |  |  | Ventilation Load   |  |  |  |  |  |  |  |  |  | Ventilation Load   |  |  |  |  |  |  |  |  |  | Ventilation Load   |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  |                         |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                       |  |  |  |  | Adj Air Trans Heat    |  |  |  |  |           |  |  |  |  | Adj Air Trans Heat  |  |  |  |  |   |  |  |  |  | Adj Air Trans Heat             |  |  |  |  |      |  |  |  |  | Adj Air Trans Heat |  |  |  |  |  |  |  |  |  | Adj Air Trans Heat |  |  |  |  |  |  |  |  |  | Adj Air Trans Heat |  |  |  |  |  |  |  |  |  | Adj Air Trans Heat |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0                  |  |  |  |  |                         |  |  |  |  | 0                  |  |  |  |  |                       |  |  |  |  | 0                     |  |  |  |  |           |  |  |  |  | 0   |  |  |  |  |   |  |  |  |  | 0                              |  |  |  |  |      |  |  |  |  | 0                  |  |  |  |  |  |  |  |  |  | 0                  |  |  |  |  |  |  |  |  |  | 0                  |  |  |  |  |  |  |  |  |  | 0                  |  |  |  |  |  |  |  |  |  | 0              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                       |  |  |  |  | Dehumid. Ov Sizing    |  |  |  |  |           |  |  |  |  | Dehumid. Ov Sizing  |  |  |  |  |   |  |  |  |  | Dehumid. Ov Sizing             |  |  |  |  |      |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |  |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |  |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |  |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  |                         |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |                       |  |  |  |  | Ov/Undr Sizing        |  |  |  |  |           |  |  |  |  | Ov/Undr Sizing  |  |  |  |  |   |  |  |  |  | Ov/Undr Sizing                 |  |  |  |  |      |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |  |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |  |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |  |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  |                         |  |  |  |  | Exhaust Heat       |  |  |  |  |                       |  |  |  |  | Exhaust Heat          |  |  |  |  |           |  |  |  |  | Exhaust Heat  |  |  |  |  |   |  |  |  |  | Exhaust Heat                   |  |  |  |  |      |  |  |  |  | Exhaust Heat       |  |  |  |  |  |  |  |  |  | Exhaust Heat       |  |  |  |  |  |  |  |  |  | Exhaust Heat       |  |  |  |  |  |  |  |  |  | Exhaust Heat       |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  |                         |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                       |  |  |  |  | Sup. Fan Heat         |  |  |  |  |           |  |  |  |  | Sup. Fan Heat   |  |  |  |  |   |  |  |  |  | Sup. Fan Heat                  |  |  |  |  |      |  |  |  |  | Sup. Fan Heat      |  |  |  |  |  |  |  |  |  | Sup. Fan Heat      |  |  |  |  |  |  |  |  |  | Sup. Fan Heat      |  |  |  |  |  |  |  |  |  | Sup. Fan Heat      |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  |                         |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                       |  |  |  |  | Ret. Fan Heat         |  |  |  |  |           |  |  |  |  | Ret. Fan Heat   |  |  |  |  |   |  |  |  |  | Ret. Fan Heat                  |  |  |  |  |      |  |  |  |  | Ret. Fan Heat      |  |  |  |  |  |  |  |  |  | Ret. Fan Heat      |  |  |  |  |  |  |  |  |  | Ret. Fan Heat      |  |  |  |  |  |  |  |  |  | Ret. Fan Heat      |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  |                         |  |  |  |  | Duct Heat Pkup     |  |  |  |  |                       |  |  |  |  | Duct Heat Pkup        |  |  |  |  |           |  |  |  |  | Duct Heat Pkup  |  |  |  |  |   |  |  |  |  | Duct Heat Pkup                 |  |  |  |  |      |  |  |  |  | Duct Heat Pkup     |  |  |  |  |  |  |  |  |  | Duct Heat Pkup     |  |  |  |  |  |  |  |  |  | Duct Heat Pkup     |  |  |  |  |  |  |  |  |  | Duct Heat Pkup     |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  |                         |  |  |  |  | Reheat at Design   |  |  |  |  |                       |  |  |  |  | Reheat at Design      |  |  |  |  |           |  |  |  |  | Reheat at Design  |  |  |  |  |   |  |  |  |  | Reheat at Design               |  |  |  |  |      |  |  |  |  | Reheat at Design   |  |  |  |  |  |  |  |  |  | Reheat at Design   |  |  |  |  |  |  |  |  |  | Reheat at Design   |  |  |  |  |  |  |  |  |  | Reheat at Design   |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                         |  |  |  |  | Grand Total ==>    |  |  |  |  |                       |  |  |  |  | Grand Total ==>       |  |  |  |  |           |  |  |  |  | Grand Total ==>   |  |  |  |  |   |  |  |  |  | Grand Total ==>                |  |  |  |  |      |  |  |  |  | Grand Total ==>    |  |  |  |  |  |  |  |  |  | Grand Total ==>    |  |  |  |  |  |  |  |  |  | Grand Total ==>    |  |  |  |  |  |  |  |  |  | Grand Total ==>    |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00                  |  |  |  |  |           |  |  |  |  | 0.00  |  |  |  |  |   |  |  |  |  | 0.00                           |  |  |  |  |      |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00               |  |  |  |  |  |  |  |  |  | 0.00           |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| No. People         |  |  |  |  |                         |  |  |  |  | No. People         |  |  |  |  |                       |  |  |  |  | No. People            |  |  |  |  |           |  |  |  |  | No. People  |  |  |  |  |   |  |  |  |  | No. People                     |  |  |  |  |      |  |  |  |  | No. People         |  |  |  |  |  |  |  |  |  | No. People         |  |  |  |  |  |  |  |  |  | No. People         |  |  |  |  |  |  |  |  |  | No. People         |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| 0                  |  |  |  |  |                         |  |  |  |  | 0                  |  |  |  |  |                       |  |  |  |  | 0                     |  |  |  |  |           |  |  |  |  | 0   |  |  |  |  |   |  |  |  |  | 0                              |  |  |  |  |      |  |  |  |  | 0                  |  |  |  |  |  |  |  |  |  | 0                  |  |  |  |  |  |  |  |  |  | 0                  |  |  |  |  |  |  |  |  |  | 0                  |  |  |  |  |  |  |  |  |  | 0              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |               |  |  |  |  |               |  |  |  |  |     |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|---------------|--|--|--|--|---------------|--|--|--|--|-----|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Enter DBWB/HR |  |  |  |  | Leave DBWB/HR |  |  |  |  |     |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | °C            |  |  |  |  | °C            |  |  |  |  |     |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 24.3          |  |  |  |  | 15.0          |  |  |  |  | 7.8 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0           |  |  |  |  | 0.0           |  |  |  |  | 0.0 |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0           |  |  |  |  | 0.0           |  |  |  |  | 0.0 |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  |                        |  |  |  |  |               |  |  |  |  |               |  |  |  |  |     |  |  |  |  |
| Capacity               |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | °C            |  |  |  |  | °C            |  |  |  |  |     |  |  |  |  |
| Main Htg               |  |  |  |  | 0.0       |  |  |  |  | 0                      |  |  |  |  | 21.9          |  |  |  |  | 25.2          |  |  |  |  |     |  |  |  |  |
| Aux Htg                |  |  |  |  | 0.0       |  |  |  |  | 0                      |  |  |  |  | 0.0           |  |  |  |  | 0.0           |  |  |  |  |     |  |  |  |  |
| Preheat                |  |  |  |  | 0.0       |  |  |  |  | 0                      |  |  |  |  | 0.0           |  |  |  |  | 0.0           |  |  |  |  |     |  |  |  |  |
| Humidif                |  |  |  |  | 0.0       |  |  |  |  | 0                      |  |  |  |  | 0.0           |  |  |  |  | 0.0           |  |  |  |  |     |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.0       |  |  |  |  | 0                      |  |  |  |  | 0.0           |  |  |  |  | 0.0           |  |  |  |  |     |  |  |  |  |
| Total                  |  |  |  |  | 0.0       |  |  |  |  |                        |  |  |  |  |               |  |  |  |  |               |  |  |  |  |     |  |  |  |  |







## Room Checksums

By GOCSA

FC0203 09 ALMACEN EX 4/25

[illegible]



FC0203 10 LIMPIEZA EX 4/25

| COOLING COIL PEAK            |           |              |       | CLG SPACE PEAK                   |    |      |       | HEATING COIL PEAK              |    |      |   | TEMPERATURES |         |         |      |
|------------------------------|-----------|--------------|-------|----------------------------------|----|------|-------|--------------------------------|----|------|---|--------------|---------|---------|------|
| Peaked at Time: Outside Air: |           |              |       | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |    |      |       | Mo/Hr: Heating Design OADB: -5 |    |      |   |              |         |         |      |
| Total Capacity               | Sens Cap. | Coil Airflow | Enter | DB/WB/HR                         | °C | g/kg | Leave | DB/WB/HR                       | °C | g/kg |   | SADB         | Cooling | Heating |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   | Plenum       |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   | Return       |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   | Ret/OA       |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   | Fn MtrTD     |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   | Fn BidTD     |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   | Fn Frict     |         |         |      |
| Envelope Loads               |           |              |       | Envelope Loads                   |    |      |       |                                |    |      |   |              |         |         |      |
| Skylite Solar                | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Skylite Cond                 | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Roof Cond                    | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Glass Solar                  | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Glass Cond                   | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Wall Cond                    | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Partition                    | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Exposed Floor                | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Infiltration                 | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Sub Total ==>                | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Internal Loads               |           |              |       | Internal Loads                   |    |      |       |                                |    |      |   |              |         |         |      |
| Lights                       | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| People                       | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Misc                         | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Sub Total ==>                | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Ceiling Load                 |           |              |       | Ceiling Load                     |    |      |       |                                |    |      |   |              |         |         |      |
| Ventilation Load             | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Adj Air Trans Heat           | 0         | 0.00         | 0     | 0                                | 0  | 0    | 0     | 0                              | 0  | 0    | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Dehumid. Ov Sizing           | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| OvUndr Sizing                | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Exhaust Heat                 | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Sup. Fan Heat                | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Ret. Fan Heat                | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Duct Heat PkUp               | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Reheat at Design             | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
| Grand Total ==>              | 0.00      | 0.00         | 0     | 0.00                             | 0  | 0.00 | 0     | 0.00                           | 0  | 0.00 | 0 | 0.00         | 0.00    | 0.00    | 0.00 |
|                              |           |              |       | Grand Total ==>                  |    |      |       | Grand Total ==>                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |
|                              |           |              |       |                                  |    |      |       |                                |    |      |   |              |         |         |      |



Room Checksums

By GOCSA

FC0203 11 ALMACEN EX 4/25

| COOLING COIL PEAK |  |              |  |       |                         |          |  |       |  | CLG SPACE PEAK |  |          |  |            |                       |           |  |          |  | HEATING COIL PEAK |  |           |  |          |         |            |  |           |  | TEMPERATURES |  |            |  |           |  |          |  |  |  |
|-------------------|--|--------------|--|-------|-------------------------|----------|--|-------|--|----------------|--|----------|--|------------|-----------------------|-----------|--|----------|--|-------------------|--|-----------|--|----------|---------|------------|--|-----------|--|--------------|--|------------|--|-----------|--|----------|--|--|--|
| Peaked at Time:   |  |              |  |       | Mo/Hr: 7 / 15           |          |  |       |  | Mo/Hr: 7 / 1   |  |          |  |            | Mo/Hr: Heating Design |           |  |          |  | SADB              |  |           |  |          | Cooling |            |  |           |  | Heating      |  |            |  |           |  |          |  |  |  |
| Outside Air:      |  |              |  |       | OADBWB/HR: 36 / 22 / 11 |          |  |       |  | OADB: 20       |  |          |  |            | OADB: -5              |           |  |          |  | Plenum            |  |           |  |          | 12.8    |            |  |           |  | 25.1         |  |            |  |           |  |          |  |  |  |
| Sens. + Lat.      |  | Plenum       |  | Net   |                         | Percent  |  | Space |  | Sensible       |  | Percent  |  | Space Peak |                       | Coil Peak |  | Percent  |  | Space Peak        |  | Coil Peak |  | Percent  |         | Space Peak |  | Coil Peak |  | Percent      |  | Space Peak |  | Coil Peak |  | Percent  |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  | Of Total |  |  |  |
| Sens. + Lat.      |  | Sens. + Lat. |  | Total |                         | Of Total |  | Sens. |  | Sens.          |  | Of Total |  | Sens.      |                       | Sens.     |  | Of Total |  | Sens.             |  | Sens.     |  | Of Total |         | Sens.      |  | Sens.     |  | Of Total     |  | Sens.      |  | Sens.     |  |          |  |  |  |



Room Checksums

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FC0203 12 DESPACHO V 1/125

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |           |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|----------------|--|--|--|--|-----------------------|--|--|--|--|--------------------|--|--|--|--|-----------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 1   |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB               |  |  |  |  | Cooling   |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 20       |  |  |  |  | OADB: -5              |  |  |  |  | Plenum             |  |  |  |  | 24.3      |  |  |  |  | 39.0         |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net            |  |  |  |  | Space                 |  |  |  |  | Space Peak         |  |  |  |  | Coil Peak |  |  |  |  | Percent      |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | Total          |  |  |  |  | Sensible              |  |  |  |  | Space Sens         |  |  |  |  | Tot Sens  |  |  |  |  | Of Total     |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | kW             |  |  |  |  | kW                    |  |  |  |  | kW                 |  |  |  |  | kW        |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Envelope Loads     |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  | -0.01                   |  |  |  |  | -0.01          |  |  |  |  | -0.01                 |  |  |  |  | -0.23              |  |  |  |  | -0.23     |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  | -0.01                   |  |  |  |  | -0.01          |  |  |  |  | -0.01                 |  |  |  |  | -0.23              |  |  |  |  | -0.23     |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Internal Loads     |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  | 0.11                    |  |  |  |  | 0.14           |  |  |  |  | 0.11                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  | 0.29                    |  |  |  |  | 0.29           |  |  |  |  | 0.15                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.40                    |  |  |  |  | 0.43           |  |  |  |  | 0.26                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Ceiling Load       |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  | 0.01                    |  |  |  |  | 0.00           |  |  |  |  | 0.01                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  | 0                       |  |  |  |  | 0              |  |  |  |  | 0                     |  |  |  |  | 0                  |  |  |  |  | 0         |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  | 0.00                    |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  | 0.40                    |  |  |  |  | 0.02           |  |  |  |  | 0.26                  |  |  |  |  | -0.23              |  |  |  |  | -0.23     |  |  |  |  | 100.00       |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |               |  |  |  |  |               |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|---------------|--|--|--|--|---------------|--|--|--|--|------|--|--|--|--|-----|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Enter DBWB/HR |  |  |  |  | Leave DBWB/HR |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | °C            |  |  |  |  | °C            |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
| Main Clg               |  |  |  |  | 0.42      |  |  |  |  | 0.27                   |  |  |  |  | 12            |  |  |  |  | 24.3          |  |  |  |  | 17.0 |  |  |  |  | 5.2 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0             |  |  |  |  | 0.0           |  |  |  |  | 0.0  |  |  |  |  | 0.0 |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0             |  |  |  |  | 0.0           |  |  |  |  | 0.0  |  |  |  |  | 0.0 |  |  |  |  |
| Total                  |  |  |  |  | 0.42      |  |  |  |  |                        |  |  |  |  |               |  |  |  |  |               |  |  |  |  |      |  |  |  |  |     |  |  |  |  |

| AREAS       |  |  |  |  | AIRFLOWS |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|-------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Gross Total |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| m²          |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Floor       |  |  |  |  | 12       |  |  |  |  | -0.2         |  |  |  |  | 12  |  |  |  |  | 21.9 |  |  |  |  |
| Part        |  |  |  |  | 23       |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| ExFlr       |  |  |  |  | 12       |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Roof        |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Wall        |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Humidif     |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent    |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total       |  |  |  |  | -0.2     |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |



Room Checksums

By GOCSA

FC0203 13 DESPACHO V 1/125

| COOLING COIL PEAK            |                    |                    |           | CLG SPACE PEAK                        |                |                  |                       | HEATING COIL PEAK              |                  |            |         | TEMPERATURES |  |  |  |
|------------------------------|--------------------|--------------------|-----------|---------------------------------------|----------------|------------------|-----------------------|--------------------------------|------------------|------------|---------|--------------|--|--|--|
| Peaked at Time: Outside Air: |                    |                    |           | Mo/Hr: 7 / 14 OADBWB/Hr: 36 / 21 / 11 |                |                  |                       | Mo/Hr: Heating Design OADB: -5 |                  |            |         |              |  |  |  |
| Envelope Loads               | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total                      | Space Sensible | Percent Of Total | Space Peak Space Sens | Coil Peak Tot Sens             | Percent Of Total | SADB       | Cooling | Heating      |  |  |  |
|                              | kW                 | kW                 | kW        | (%)                                   | kW             | (%)              | kW                    | kW                             | (%)              | Plenum     | 13.8    | 25.0         |  |  |  |
|                              | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | 0.00                  | 0.00                           | 0                | Return     | 24.3    | 21.9         |  |  |  |
|                              | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | 0.00                  | 0.00                           | 0                | Ret/OA     | 24.3    | 21.9         |  |  |  |
|                              | 0.37               | 0.00               | 0.37      | 0                                     | 0.37           | 0                | 0.00                  | 0.00                           | 0                | Fn MtrTD   | 0.0     | 0.0          |  |  |  |
|                              | 0.02               | 0.00               | 0.02      | 0                                     | 0.02           | 0                | -0.09                 | -0.09                          | 0                | Fn BidTD   | 0.0     | 0.0          |  |  |  |
|                              | 0.02               | 0.00               | 0.02      | 0                                     | 0.02           | 0                | -0.10                 | -0.13                          | 0                | Fn Frict   | 0.0     | 0.0          |  |  |  |
|                              | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | 0.00                  | 0.00                           | 0                |            |         |              |  |  |  |
|                              | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | 0.00                  | 0.00                           | 0                |            |         |              |  |  |  |
|                              | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | 0.00                  | 0.00                           | 0                |            |         |              |  |  |  |
| 0.41                         | 0.00               | 0.41               | 0         | 0.41                                  | 0              | -0.19            | -0.22                 | 0                              |                  |            |         |              |  |  |  |
| Sub Total ==>                |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
| Internal Loads               | Lights             | 0.11               | 0.14      | 0                                     | 0.11           | 0                | 0.00                  | 0.00                           | 0                | Vent       | Cooling | Heating      |  |  |  |
|                              | People             | 0.29               | 0.29      | 0                                     | 0.15           | 0                | 0.00                  | 0.00                           | 0                | Infil      | 0       | 0            |  |  |  |
|                              | Misc               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | 0.00                  | 0.00                           | 0                | Supply     | 57      | 57           |  |  |  |
|                              | Sub Total ==>      | 0.40               | 0.43      | 0                                     | 0.26           | 0                | 0.00                  | 0.00                           | 0                | MinStop/Rh | 0       | 0            |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  | Return     | 57      | 57           |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  | Exhaust    | 0       | 0            |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  | Rm Exh     | 0       | 0            |  |  |  |
| Ceiling Load                 |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
| Ventilation Load             |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
| Adj Air Trans Heat           |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
| Dehumid. Ov Sizing           |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
| Ov/Undr Sizing               |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
| Exhaust Heat                 |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
| Sup. Fan Heat                |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
| Ret. Fan Heat                |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
| Duct Heat Pkup               |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
| Reheat at Design             |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
| Grand Total ==>              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |
|                              |                    |                    |           |                                       |                |                  |                       |                                |                  |            |         |              |  |  |  |



FC0203 14 PASILLO V 2/1

| COOLING COIL PEAK  |                    |                          |           | CLG SPACE PEAK |                  |                       |                  | HEATING COIL PEAK     |                  |            |                  |
|--------------------|--------------------|--------------------------|-----------|----------------|------------------|-----------------------|------------------|-----------------------|------------------|------------|------------------|
| Peaked at Time:    |                    | Mo/Hr: 7 / 15            |           | Mo/Hr: 7 / 1   |                  | Mo/Hr: Heating Design |                  | Mo/Hr: Heating Design |                  |            |                  |
| Outside Air:       |                    | OADB/WB/HR: 36 / 22 / 11 |           | OADB: 20       |                  | OADB: -5              |                  |                       |                  |            |                  |
| Envelope Loads     | Space Sens. + Lat. | Plenum Sens. + Lat.      | Net Total | Space Sensible | Percent Of Total | Space Sens            | Percent Of Total | Space Sens            | Percent Of Total | Space Sens | Percent Of Total |
| kW                 | kW                 | kW                       | kW        | kW             | (%)              | kW                    | (%)              | kW                    | (%)              | kW         | (%)              |
| Envelope Loads     | 0.00               | 0.00                     | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Skylite Solar      | 0.00               | 0.00                     | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Skylite Cond       | 0.00               | 0.00                     | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Roof Cond          | 0.00               | 0.00                     | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Glass Solar        | 0.00               | 0.00                     | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Glass Cond         | 0.00               | 0.00                     | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Wall Cond          | 0.00               | 0.00                     | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Partition          | 0.00               | 0.00                     | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Exposed Floor      | 0.00               | 0.00                     | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Infiltration       | 0.00               | 0.00                     | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Sub Total ==>      | 0.00               | 0.00                     | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Internal Loads     | 0.58               | 0.15                     | 0.73      | 0.58           | 30               | 0.58                  | 37               | 0.00                  | 0                | 0.00       | 0                |
| Lights             | 1.69               |                          | 1.69      | 0.92           | 70               | 0.92                  | 59               | 0.00                  | 0                | 0.00       | 0                |
| People             | 0.00               | 0.00                     | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Misc               | 2.27               | 0.15                     | 2.42      | 1.50           | 100              | 1.50                  | 97               | 0.00                  | 0                | 0.00       | 0                |
| Sub Total ==>      |                    |                          |           |                |                  |                       |                  |                       |                  |            |                  |
| Ceiling Load       | 0.05               | -0.05                    | 0.00      | 0.05           | 3                | 0.05                  | 3                | -0.01                 | 0                | 0.00       | 0                |
| Ventilation Load   | 0.00               | 0.00                     | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Adj Air Trans Heat | 0                  |                          | 0         | 0              | 0                | 0                     | 0                | 0                     | 0                | 0          | 0                |
| Dehumid. Ov Sizing |                    |                          | 0         |                | 0                |                       | 0                |                       |                  |            |                  |
| OvUndr Sizing      | 0.00               |                          | 0.00      | 0.00           | 0                | 0.00                  | 0                | 0.00                  | 0                | 0.00       | 0                |
| Exhaust Heat       |                    | 0.00                     | 0.00      |                | 0                |                       |                  | 0.00                  | 0                | 0.00       | 0                |
| Sup. Fan Heat      |                    |                          | 0.00      |                | 0                |                       |                  | 0.00                  | 0                | 0.00       | 0                |
| Ret. Fan Heat      |                    | 0.00                     | 0.00      |                | 0                |                       |                  | 0.00                  | 0                | 0.00       | 0                |
| Duct Heat PkUp     |                    | 0.00                     | 0.00      |                | 0                |                       |                  | 0.00                  | 0                | 0.00       | 0                |
| Reheat at Design   |                    |                          | 0.00      |                | 0                |                       |                  | 0.00                  | 0                | -0.02      | 0                |
| Grand Total ==>    | 2.32               | 0.10                     | 2.42      | 1.55           | 100.00           |                       |                  | -0.01                 | -0.02            | 100.00     |                  |

| TEMPERATURES |         |         |  |
|--------------|---------|---------|--|
| SADB         | Cooling | Heating |  |
| Plenum       | 8.7     | 22.1    |  |
| Return       | 24.3    | 21.9    |  |
| Ret/OA       | 24.3    | 21.9    |  |
| Fn MtrTD     | 0.0     | 0.0     |  |
| Fn BidTD     | 0.0     | 0.0     |  |
| Fn Frict     | 0.0     | 0.0     |  |

| AIRFLOWS   |         |         |  |
|------------|---------|---------|--|
|            | Cooling | Heating |  |
| Vent       | 0       | 0       |  |
| Infil      | 0       | 0       |  |
| Supply     | 89      | 89      |  |
| MinStop/Rh | 0       | 0       |  |
| Return     | 89      | 89      |  |
| Exhaust    | 0       | 0       |  |
| Rm Exh     | 0       | 0       |  |
| Auxil      | 0       | 0       |  |

| ENGINEERING CKS |         |         |  |
|-----------------|---------|---------|--|
|                 | Cooling | Heating |  |
| % OA            | 0.0     | 0.0     |  |
| Lps/m²          | 0.85    | 0.85    |  |
| Lps/kW          | 36.63   |         |  |
| m²/kW           | 42.95   |         |  |
| W/m²            | 23.27   | -0.21   |  |
| No. People      |         | 10      |  |

| COOLING COIL SELECTION |           |              |                |                |
|------------------------|-----------|--------------|----------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR | Leave DB/WB/HR |
| kW                     | kW        | L/s          | °C             | °C             |
| Main Clg               | 2.42      | 89           | 24.3           | 8.7            |
| Aux Clg                | 0.00      | 0            | 0.0            | 0.0            |
| Opt Vent               | 0.00      | 0            | 0.0            | 0.0            |
| Total                  | 2.42      |              |                |                |

| AREAS       |     | Glass  |
|-------------|-----|--------|
| Gross Total |     | m² (%) |
| Floor       | 104 |        |
| Part        | 445 |        |
| ExFlr       | 0   |        |
| Roof        | 0   | 0      |
| Wall        | 0   | 0      |

| HEATING COIL SELECTION |              |     |      |
|------------------------|--------------|-----|------|
| Capacity               | Coil Airflow | Ent | Lvg  |
| kW                     | L/s          | °C  | °C   |
| Main Htg               | 0.0          | 89  | 21.9 |
| Aux Htg                | 0.0          | 0   | 0.0  |
| Preheat                | 0.0          | 0   | 0.0  |
| Humidif                | 0.0          | 0   | 0.0  |
| Opt Vent               | 0.0          | 0   | 0.0  |
| Total                  | 0.0          |     |      |



Room Checksums

By GOCSA

FC0203 15 ESPACIO ESTERILIZADO V 1/125

| COOLING COIL PEAK               |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK           |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK       |  |  |  |  |                                |  |  |  |  | TEMPERATURES                |  |  |  |  |                            |  |  |  |  |                  |  |  |  |  |        |  |  |  |  |            |  |  |  |  |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|--------------------------|--|--|--|--|-----------------------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------------------|--|--|--|--|-----------------------------|--|--|--|--|----------------------------|--|--|--|--|------------------|--|--|--|--|--------|--|--|--|--|------------|--|--|--|--|------|--|--|--|--|------|--|--|--|--|------|--|--|--|--|------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |  |  |  |  | Mo/Hr: 7 / 1<br>OADB: 20 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB                    |  |  |  |  | Cooling                        |  |  |  |  | Heating                     |  |  |  |  |                            |  |  |  |  |                  |  |  |  |  |        |  |  |  |  |            |  |  |  |  |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Sens. + Lat.<br>kW              |  |  |  |  | Plenum<br>Sens. + Lat<br>kW              |  |  |  |  | Net<br>Total<br>kW       |  |  |  |  | Percent<br>Of Total<br>(%)        |  |  |  |  | Space<br>Sensible<br>kW |  |  |  |  | Space Peak<br>Space Sens<br>kW |  |  |  |  | Coil Peak<br>Tot Sens<br>kW |  |  |  |  | Percent<br>Of Total<br>(%) |  |  |  |  | Return<br>Ret/OA |  |  |  |  | Plenum |  |  |  |  |            |  |  |  |  |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Envelope Loads                  |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |      |  |  |  |  |
| Skylite Solar                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Skylite Cond                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Roof Cond                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |
| Glass Solar                     |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |
| Glass Cond                      |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |
| Glass Cond                      |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |
| Wall Cond                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |
| Partition                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |
| Exposed Floor                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |
| Infiltration                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |
| Internal Loads                  |  |  |  |  | 0.27                                     |  |  |  |  | 0.07                     |  |  |  |  | 0.34                              |  |  |  |  | 13                      |  |  |  |  | 0.27                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Lights                          |  |  |  |  | 0.26                                     |  |  |  |  | 0.00                     |  |  |  |  | 0.26                              |  |  |  |  | 10                      |  |  |  |  | 0.15                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| People                          |  |  |  |  | 2.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 2.00                              |  |  |  |  | 77                      |  |  |  |  | 2.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Misc                            |  |  |  |  | 2.53                                     |  |  |  |  | 0.07                     |  |  |  |  | 2.60                              |  |  |  |  | 100                     |  |  |  |  | 2.42                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.01                                     |  |  |  |  | -0.01                    |  |  |  |  | 0.00                              |  |  |  |  | 0                       |  |  |  |  | 0.01                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Ceiling Load                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Ventilation Load                |  |  |  |  | 0  |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0                       |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Reheat at Design                |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                           |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  | 0.00             |  |  |  |  | 0.00   |  |  |  |  | 0.00       |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |  |      |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | 2.54                                     |  |  |  |  | 0.06                     |  |  |  |  | 2.60                              |  |  |  |  | 100.00                  |  |  |  |  | 2.43                           |  |  |  |  | 0.00                        |  |  |  |  | -0.03                      |  |  |  |  | 100.00           |  |  |  |  | 2      |  |  |  |  | No. People |  |  |  |  |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |                 |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |                     |  |  |  |  |                     |  |  |  |  |                   |  |  |  |  |             |  |  |  |  |                |  |  |  |  |                     |  |  |  |  |           |  |  |  |  |            |  |  |  |  |      |  |  |  |  |     |  |  |  |  |     |  |  |  |  |
|------------------------|--|--|--|--|-----------------|--|--|--|--|------------------------|--|--|--|--|---------------------|--|--|--|--|---------------------|--|--|--|--|-------------------|--|--|--|--|-------------|--|--|--|--|----------------|--|--|--|--|---------------------|--|--|--|--|-----------|--|--|--|--|------------|--|--|--|--|------|--|--|--|--|-----|--|--|--|--|-----|--|--|--|--|
| Total Capacity<br>kW   |  |  |  |  | Sens Cap.<br>kW |  |  |  |  | Coil Airflow<br>L/s    |  |  |  |  | Enter DBWB/HR<br>°C |  |  |  |  | Leave DBWB/HR<br>°C |  |  |  |  | Gross Total<br>m² |  |  |  |  | Glass<br>m² |  |  |  |  | Capacity<br>kW |  |  |  |  | Coil Airflow<br>L/s |  |  |  |  | Ent<br>°C |  |  |  |  | Lvlg<br>°C |  |  |  |  |      |  |  |  |  |     |  |  |  |  |     |  |  |  |  |
| Main Clg               |  |  |  |  | 2.60            |  |  |  |  | 2.48                   |  |  |  |  | 278                 |  |  |  |  | 24.3                |  |  |  |  | 16.4              |  |  |  |  | 30          |  |  |  |  |                |  |  |  |  | 0.0                 |  |  |  |  | 278       |  |  |  |  | 21.9       |  |  |  |  | 22.0 |  |  |  |  |     |  |  |  |  |     |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00            |  |  |  |  | 0.00                   |  |  |  |  | 0                   |  |  |  |  | 0.0                 |  |  |  |  | 0.0               |  |  |  |  | 71          |  |  |  |  |                |  |  |  |  | 0.0                 |  |  |  |  | 0         |  |  |  |  | 0.0        |  |  |  |  | 0.0  |  |  |  |  | 0.0 |  |  |  |  |     |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00            |  |  |  |  | 0.00                   |  |  |  |  | 0                   |  |  |  |  | 0.0                 |  |  |  |  | 0.0               |  |  |  |  | 0           |  |  |  |  |                |  |  |  |  | 0.0                 |  |  |  |  | 0         |  |  |  |  | 0.0        |  |  |  |  | 0.0  |  |  |  |  | 0.0 |  |  |  |  |     |  |  |  |  |
| Total                  |  |  |  |  | 2.60            |  |  |  |  |                        |  |  |  |  |                     |  |  |  |  |                     |  |  |  |  | 0                 |  |  |  |  | 0           |  |  |  |  |                |  |  |  |  | 0.0                 |  |  |  |  | 0         |  |  |  |  | 0.0        |  |  |  |  | 0.0  |  |  |  |  | 0.0 |  |  |  |  | 0.0 |  |  |  |  |



Room Checksums

By GOCSA

FC0203 16 DESPACHO RESPONSABLE V 1/125

| COOLING COIL PEAK            |                    |                    |           | CLG SPACE PEAK                        |                |                  |                    | HEATING COIL PEAK              |                    |                  |            | TEMPERATURES |         |  |  |
|------------------------------|--------------------|--------------------|-----------|---------------------------------------|----------------|------------------|--------------------|--------------------------------|--------------------|------------------|------------|--------------|---------|--|--|
| Peaked at Time: Outside Air: |                    |                    |           | Mo/Hr: 7 / 15 OADBWB/Hr: 36 / 22 / 11 |                |                  |                    | Mo/Hr: Heating Design OADB: -5 |                    |                  |            |              |         |  |  |
| Envelope Loads               | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total                      | Space Sensible | Percent Of Total | Envelope Loads     | Space Peak Space Sens          | Coil Peak Tot Sens | Percent Of Total | SADB       | Cooling      | Heating |  |  |
|                              | kW                 | kW                 | kW        | (%)                                   | kW             | (%)              |                    | kW                             | kW                 | (%)              |            |              |         |  |  |
| Skylite Solar                | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Skylite Solar      | 0.00                           | 0.00               | 0                |            | 14.2         | 26.8    |  |  |
| Skylite Cond                 | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Skylite Cond       | 0.00                           | 0.00               | 0                | Plenum     | 24.3         | 21.9    |  |  |
| Roof Cond                    | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Roof Cond          | 0.00                           | 0.00               | 0                | Return     | 24.3         | 21.9    |  |  |
| Glass Solar                  | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Glass Solar        | 0.00                           | 0.00               | 0                | Ret/OA     | 24.3         | 21.9    |  |  |
| Glass Cond                   | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Glass Cond         | 0.00                           | 0.00               | 0                | Fn MtrTD   | 0.0          | 0.0     |  |  |
| Wall Cond                    | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Wall Cond          | 0.00                           | 0.00               | 0                | Fn BidTD   | 0.0          | 0.0     |  |  |
| Partition                    | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Partition          | 0.00                           | 0.00               | 0                | Fn Frict   | 0.0          | 0.0     |  |  |
| Exposed Floor                | -0.01              |                    | -0.01     | 0                                     | -0.01          | 0                | Exposed Floor      | 0.00                           | 0.00               | 0                |            |              |         |  |  |
| Infiltration                 | 0.00               |                    | 0.00      | 0                                     | 0.00           | 0                | Infiltration       | 0.00                           | 0.00               | 0                |            |              |         |  |  |
| Sub Total ==>                | -0.01              | 0.00               | -0.01     | 0                                     | -0.01          | 0                | Sub Total ==>      | -0.31                          | -0.31              | 0                |            |              |         |  |  |
| Internal Loads               |                    |                    |           |                                       |                |                  |                    |                                |                    |                  | AIRFLOWS   |              |         |  |  |
| Lights                       | 0.15               | 0.04               | 0.19      | 0                                     | 0.15           | 0                | Lights             | 0.00                           | 0.00               | 0                | Vent       | Cooling      | Heating |  |  |
| People                       | 0.26               |                    | 0.26      | 0                                     | 0.15           | 0                | People             | 0.00                           | 0.00               | 0                | Infil      | 0            | 0       |  |  |
| Misc                         | 0.35               | 0.00               | 0.35      | 0                                     | 0.35           | 0                | Misc               | 0.00                           | 0.00               | 0                | Supply     | 57           | 57      |  |  |
| Sub Total ==>                | 0.76               | 0.04               | 0.80      | 0                                     | 0.65           | 0                | Sub Total ==>      | 0.00                           | 0.00               | 0                | MinStop/Rh | 0            | 0       |  |  |
|                              |                    |                    |           |                                       |                |                  |                    |                                |                    |                  | Return     | 57           | 57      |  |  |
|                              |                    |                    |           |                                       |                |                  |                    |                                |                    |                  | Exhaust    | 0            | 0       |  |  |
|                              |                    |                    |           |                                       |                |                  |                    |                                |                    |                  | Rm Exh     | 0            | 0       |  |  |
|                              |                    |                    |           |                                       |                |                  |                    |                                |                    |                  | Auxil      | 0            | 0       |  |  |
| ENGINEERING CKS              |                    |                    |           |                                       |                |                  |                    |                                |                    |                  |            |              |         |  |  |
| Ceiling Load                 | 0.01               | -0.01              | 0.00      | 0                                     | 0.01           | 0                | Ceiling Load       | 0.00                           | 0                  | 0                | % OA       | Cooling      | Heating |  |  |
| Ventilation Load             | 0.00               | 0.00               | 0.00      | 0                                     | 0.00           | 0                | Ventilation Load   | 0.00                           | 0.00               | 0                |            | 0.0          | 0.0     |  |  |
| Adj Air Trans Heat           | 0                  |                    | 0         | 0                                     | 0              | 0                | Adj Air Trans Heat | 0                              | 0                  | 0                |            |              |         |  |  |
| Dehumid. Ov Sizing           |                    |                    | 0         | 0                                     |                | 0                |                    |                                |                    |                  |            |              |         |  |  |
| Ov/Undr Sizing               | 0.00               |                    | 0.00      | 0                                     | 0.00           | 0                | Ov/Undr Sizing     | 0.00                           | 0.00               | 0                | Lps/m²     | 3.44         | 3.44    |  |  |
| Exhaust Heat                 |                    | 0.00               | 0.00      | 0                                     |                | 0                | Exhaust Heat       | 0.00                           | 0.00               | 0                | Lps/kW     | 72.85        |         |  |  |
| Sup. Fan Heat                |                    |                    | 0.00      | 0                                     |                | 0                | OA Preheat Diff.   | 0.00                           | 0.00               | 0                |            |              |         |  |  |
| Ret. Fan Heat                |                    | 0.00               | 0.00      | 0                                     |                | 0                | RA Preheat Diff.   | 0.00                           | 0.00               | 0                | m²/kW      | 21.17        |         |  |  |
| Duct Heat Pkup               |                    | 0.00               | 0.00      | 0                                     |                | 0                | Additional Reheat  | 0.00                           | 0.00               | 0                | W/m²       | 47.20        | -19.21  |  |  |
| Reheat at Design             |                    |                    | 0.00      | 0                                     |                | 0                | System Plenum Heat | -0.01                          | -0.01              | 0                |            |              |         |  |  |
| Grand Total ==>              | 0.76               | 0.03               | 0.79      | 100.00                                | 0.65           | 100.00           | Grand Total ==>    | -0.31                          | -0.32              | 100.00           | No. People | 2            |         |  |  |

| COOLING COIL SELECTION |      |           |              |       |      |       |      |             |                | AREAS |       |          |              | HEATING COIL SELECTION |      |      |  |
|------------------------|------|-----------|--------------|-------|------|-------|------|-------------|----------------|-------|-------|----------|--------------|------------------------|------|------|--|
| Total Capacity         |      | Sens Cap. | Coil Airflow | Enter |      | Leave |      | Gross Total | Glass          |       |       | Capacity | Coil Airflow | Ent                    | Lvg  |      |  |
| kW                     |      | kW        | L/s          | °C    | °C   | °C    | °C   |             | m <sup>2</sup> | (%)   |       | kW       | L/s          | °C                     | °C   |      |  |
| Main Clg               | 0.79 | 0.67      | 57           | 24.3  | 17.0 | 10.2  | 14.2 | 17          |                |       | Floor | -0.3     | 57           | 21.9                   | 26.8 |      |  |
| Aux Clg                | 0.00 | 0.00      | 0            | 0.0   | 0.0  | 0.0   | 0.0  | 54          |                |       | Part  | 0.0      | 0            | 0.0                    | 0.0  |      |  |
| Opt Vent               | 0.00 | 0.00      | 0            | 0.0   | 0.0  | 0.0   | 0.0  | 17          |                |       | ExFlr | 0.0      | 0            | 0.0                    | 0.0  |      |  |
| Total                  | 0.79 |           |              |       |      |       |      | 0           | 0              | 0     | Roof  | 0.0      | 0            | 0.0                    | 0.0  |      |  |
|                        |      |           |              |       |      |       |      | 0           | 0              | 0     | Wall  |          |              |                        |      |      |  |
|                        |      |           |              |       |      |       |      |             |                |       |       |          |              |                        |      |      |  |
|                        |      |           |              |       |      |       |      |             |                |       |       | Total    |              |                        |      | -0.3 |  |



Room Checksums

By GOCSA

FC0203 17 ZONA DE TRABAJO V 1/125

| COOLING COIL PEAK  |  |  |  |  |                        |  |  |  |  | CLG SPACE PEAK |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |          |  |  |  |  | TEMPERATURES       |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|------------------------|--|--|--|--|----------------|--|--|--|--|-----------------------|--|--|--|--|--------------------|--|--|--|--|----------|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 21          |  |  |  |  | Mo/Hr: 7 / 21  |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB               |  |  |  |  | Cooling  |  |  |  |  | Heating            |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 25 / 14 / 6 |  |  |  |  | OADB: 25       |  |  |  |  | OADB: -5              |  |  |  |  | Plenum             |  |  |  |  | 24.3     |  |  |  |  | 27.4               |  |  |  |  |  |  |  |  |  |
| Space              |  |  |  |  | Net                    |  |  |  |  | Space          |  |  |  |  | Space Peak            |  |  |  |  | Coil Peak          |  |  |  |  | Percent  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Total                  |  |  |  |  | Sensible       |  |  |  |  | Tot Sens              |  |  |  |  | Tot Sens           |  |  |  |  | Of Total |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                     |  |  |  |  | kW             |  |  |  |  | kW                    |  |  |  |  | kW                 |  |  |  |  | %        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                        |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Envelope Loads     |  |  |  |  |          |  |  |  |  | Envelope Loads     |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  | 0.02                   |  |  |  |  | 0.02           |  |  |  |  | -0.09                 |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  | -0.01                  |  |  |  |  | -0.01          |  |  |  |  | -0.27                 |  |  |  |  | -0.09              |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.01                   |  |  |  |  | 0.01           |  |  |  |  | -0.36                 |  |  |  |  | -0.36              |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                        |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Internal Loads     |  |  |  |  |          |  |  |  |  | Internal Loads     |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  | 0.15                   |  |  |  |  | 0.12           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  | 0.40                   |  |  |  |  | 0.22           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  | 0.35                   |  |  |  |  | 0.35           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.90                   |  |  |  |  | 0.69           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                        |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Ceiling Load       |  |  |  |  |          |  |  |  |  | Ceiling Load       |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  | -0.01                  |  |  |  |  | 0.01           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                        |  |  |  |  |                |  |  |  |  |                       |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |          |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  | 0.00                   |  |  |  |  | 0.00           |  |  |  |  | -0.01                 |  |  |  |  | -0.01              |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  | 0.89                   |  |  |  |  | 0.91           |  |  |  |  | 100.00                |  |  |  |  | -0.36              |  |  |  |  | 100.00   |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |      |  |      |           |    |  |      |  | HEATING COIL SELECTION |  |      |  |      |          |      |  |     |  |              |  |  |  |  |     |  |  |  |  |
|------------------------|--|------|--|------|-----------|----|--|------|--|------------------------|--|------|--|------|----------|------|--|-----|--|--------------|--|--|--|--|-----|--|--|--|--|
| Total Capacity         |  |      |  |      | Sens Cap. |    |  |      |  | Coil Airflow           |  |      |  |      | Capacity |      |  |     |  | Coil Airflow |  |  |  |  | Lvg |  |  |  |  |
| kW                     |  |      |  |      | kW        |    |  |      |  | L/s                    |  |      |  |      | kW       |      |  |     |  | L/s          |  |  |  |  | °C  |  |  |  |  |
| Main Clg               |  | 0.91 |  | 0.74 |           | 58 |  | 24.3 |  | 17.0                   |  | 10.2 |  | 13.3 |          | 12.1 |  | 9.1 |  | 27.4         |  |  |  |  |     |  |  |  |  |
| Aux Clg                |  | 0.00 |  | 0.00 |           | 0  |  | 0.0  |  | 0.0                    |  | 0.0  |  | 0.0  |          | 0.0  |  | 0.0 |  | 0.0          |  |  |  |  |     |  |  |  |  |
| Opt Vent               |  | 0.00 |  | 0.00 |           | 0  |  | 0.0  |  | 0.0                    |  | 0.0  |  | 0.0  |          | 0.0  |  | 0.0 |  | 0.0          |  |  |  |  |     |  |  |  |  |
| Total                  |  | 0.91 |  |      |           |    |  |      |  |                        |  |      |  |      |          |      |  |     |  |              |  |  |  |  |     |  |  |  |  |



## Room Checksums

By GOCSA

FC0203 19 IT EX 4/25

| COOLING COIL PEAK                                     |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK        |  |  |  | HEATING COIL PEAK              |  |  |  | TEMPERATURES              |  |  |  |                          |  |  |  |                       |  |  |  |                      |  |  |  |           |  |  |  |               |  |  |  |              |  |  |  |               |  |  |  |
|---|--|--|--|--|--|--|--|--|--|-----------------------|--|--|--|--------------------------------|--|--|--|---------------------------|--|--|--|--------------------------|--|--|--|-----------------------|--|--|--|----------------------|--|--|--|-----------|--|--|--|---------------|--|--|--|--------------|--|--|--|---------------|--|--|--|
| Peaked at Time: Outside Air: OADB/WB/HR: 36 / 22 / 11 |  |  |  |  |  |  |  |  |  | Mo/Hr: 7 / 1 OADB: 20 |  |  |  | Mo/Hr: Heating Design OADB: -5 |  |  |  | SADB Cooling Heating 25.2 |  |  |  |                          |  |  |  |                       |  |  |  |                      |  |  |  |           |  |  |  |               |  |  |  |              |  |  |  |               |  |  |  |
| Sens. + Lat. kW                                       |  |  |  |  |  |  |  |  |  | Plenum Sens. + Lat kW |  |  |  | Net Total kW                   |  |  |  | Space Sensible kW         |  |  |  | Space Peak Space Sens kW |  |  |  | Coil Peak Tot Sens kW |  |  |  | Percent Of Total (%) |  |  |  |           |  |  |  |               |  |  |  |              |  |  |  |               |  |  |  |
| Envelope Loads  |  |  |  |  |  |  |  |  |  | Skylite Solar         |  |  |  | Skylite Cond                   |  |  |  | Roof Cond                 |  |  |  | Glass Solar              |  |  |  | Glass Cond            |  |  |  | Wall Cond            |  |  |  | Partition |  |  |  | Exposed Floor |  |  |  | Infiltration |  |  |  | Sub Total ==> |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  | 0.00      |  |  |  | 0.00          |  |  |  | 0.00         |  |  |  | 0.00          |  |  |  |
| 0.00  |  |  |  |  |  |  |  |  |  | 0.00                  |  |  |  | 0.00                           |  |  |  | 0.00                      |  |  |  | 0.00                     |  |  |  | 0.00                  |  |  |  | 0.00                 |  |  |  |           |  |  |  |               |  |  |  |              |  |  |  |               |  |  |  |



Room Checksums

By GOCSA

FC0203 20 SALIDA ESTERIL V 2/1

| COOLING COIL PEAK               |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK           |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |            |  |  |  |  | TEMPERATURES |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|--------------------------|--|--|--|--|-----------------------------------|--|--|--|--|--------------------|--|--|--|--|------------|--|--|--|--|--------------|--|--|--|--|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |  |  |  |  | Mo/Hr: 7 / 1<br>OADB: 20 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB               |  |  |  |  | Cooling    |  |  |  |  | Heating      |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | Plenum                                   |  |  |  |  | Net Total                |  |  |  |  | Percent Of Total                  |  |  |  |  | Space Sensible     |  |  |  |  | Space Peak |  |  |  |  | Coil Peak    |  |  |  |  | Percent Of Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| kW                              |  |  |  |  | kW                                       |  |  |  |  | kW                       |  |  |  |  | %                                 |  |  |  |  | kW                 |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Envelope Loads                  |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Envelope Loads     |  |  |  |  |            |  |  |  |  |              |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Solar                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skylite Cond                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Roof Cond                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glass Solar                     |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glass Cond                      |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wall Cond                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Partition                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exposed Floor                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Infiltration                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Internal Loads                  |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Internal Loads     |  |  |  |  |            |  |  |  |  |              |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lights                          |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| People                          |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Misc                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0.00         |  |  |  |  | 0                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ceiling Load                    |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Ceiling Load       |  |  |  |  |            |  |  |  |  |              |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.01                            |  |  |  |  | -0.01                                    |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.01               |  |  |  |  | 0.00       |  |  |  |  | 0            |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ventilation Load                |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Ventilation Load   |  |  |  |  |            |  |  |  |  |              |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0            |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Adj Air Trans Heat |  |  |  |  |            |  |  |  |  |              |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0                               |  |  |  |  | 0.00                                     |  |  |  |  | 0                        |  |  |  |  | 0                                 |  |  |  |  | 0                  |  |  |  |  | 0          |  |  |  |  | 0            |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |            |  |  |  |  |              |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0            |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OvUndr Sizing                   |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | OvUndr Sizing      |  |  |  |  |            |  |  |  |  |              |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0            |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exhaust Heat                    |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Exhaust Heat       |  |  |  |  |            |  |  |  |  |              |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0            |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Sup. Fan Heat      |  |  |  |  |            |  |  |  |  |              |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0            |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Ret. Fan Heat      |  |  |  |  |            |  |  |  |  |              |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0            |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Duct Heat Pkup     |  |  |  |  |            |  |  |  |  |              |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0            |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Reheat at Design                |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Reheat at Design   |  |  |  |  |            |  |  |  |  |              |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00               |  |  |  |  | 0.00       |  |  |  |  | 0            |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Grand Total ==>                 |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Grand Total ==>    |  |  |  |  |            |  |  |  |  |              |  |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.01                            |  |  |  |  | -0.01                                    |  |  |  |  | 0.00                     |  |  |  |  | 100.00                            |  |  |  |  | 0.01               |  |  |  |  | 100.00     |  |  |  |  | 0.00         |  |  |  |  | 100.00           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |       |  |  |  |  |         |  |  |  |  |       |  |  |  |  |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|-------|--|--|--|--|---------|--|--|--|--|-------|--|--|--|--|------|--|--|--|--|------|--|--|--|--|------|--|--|--|--|-----|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Enter |  |  |  |  | DBWB/HR |  |  |  |  | Leave |  |  |  |  |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | °C    |  |  |  |  | °C      |  |  |  |  | g/kg  |  |  |  |  | g/kg |  |  |  |  |      |  |  |  |  |      |  |  |  |  |     |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0     |  |  |  |  | 24.3    |  |  |  |  | 15.1  |  |  |  |  | 7.9  |  |  |  |  | 12.8 |  |  |  |  | 10.7 |  |  |  |  | 7.9 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0     |  |  |  |  | 0.0     |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  | 0.0 |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0     |  |  |  |  | 0.0     |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  | 0.0  |  |  |  |  | 0.0 |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |         |  |  |  |  |       |  |  |  |  |      |  |  |  |  |      |  |  |  |  |      |  |  |  |  |     |  |  |  |  |

| AREAS       |  |       |  |     |
|-------------|--|-------|--|-----|
| Gross Total |  | Glass |  | (%) |
|             |  | m²    |  |     |
| Floor       |  | 13    |  |     |
| Part        |  | 34    |  |     |
| ExFir       |  | 0     |  |     |
| Roof        |  | 0     |  |     |
| Wall        |  | 0     |  |     |
| Humidif     |  | 0     |  |     |
| Opt Vent    |  | 0     |  |     |
| Total       |  | 0.0   |  |     |

|          |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |
|----------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|
| Main Htg |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |
| 0.0      |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |
| Aux Htg  |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0 |  |  |  |  |
| Preheat  |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0 |  |  |  |  |
| Humidif  |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0 |  |  |  |  |
| Opt Vent |  |  |  |  | 0.0      |  |  |  |  | 0            |  |  |  |  | 0.0 |  |  |  |  |
| Total    |  |  |  |  | 0.0      |  |  |  |  |              |  |  |  |  |     |  |  |  |  |



| COOLING COIL SELECTION |                      |                 |                     |             |                     |                              |
|------------------------|----------------------|-----------------|---------------------|-------------|---------------------|------------------------------|
|                        | Total Capacity<br>kW | Sens Cap.<br>kW | Coil Airflow<br>L/s | Enter<br>°C | DB/WB/HR<br>°C g/kg | Leave DB/WB/HR<br>°C °C g/kg |
| Main Clg               | 0.00                 | 0.00            | 0                   | 24.3        | 14.9 7.7            | 12.8 10.5 7.7                |
| Aux Clg                | 0.00                 | 0.00            | 0                   | 0.0         | 0.0 0.0             | 0.0 0.0 0.0                  |
| Opt Vent               | 0.00                 | 0.00            | 0                   | 0.0         | 0.0 0.0             | 0.0 0.0 0.0                  |
| <b>Total</b>           | 0.00                 |                 |                     |             |                     |                              |

| AREAS |    | Glass<br>m <sup>2</sup> | (%) |
|-------|----|-------------------------|-----|
| Floor | 5  |                         |     |
| Part  | 28 |                         |     |
| ExFlr | 0  | 0                       | 0   |
| Roof  | 0  | 0                       | 0   |
| Wall  | 0  | 0                       | 0   |

| HEATING COIL SELECTION |                |                     |           |
|------------------------|----------------|---------------------|-----------|
|                        | Capacity<br>kW | Coil Airflow<br>L/s | Ent<br>°C |
| Main Htg               | 0.0            | 0                   | 25.2      |
| Aux Htg                | 0.0            | 0                   | 0.0       |
| Preheat                | 0.0            | 0                   | 0.0       |
| Humidif                | 0.0            | 0                   | 0.0       |
| Opt Vent               | 0.0            | 0                   | 0.0       |
| <b>Total</b>           | 0.0            |                     |           |



Room Checksums

By GOCSA

FC0203 24 PASILLO V 2/1

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK         |          |          |          | HEATING COIL PEAK              |           |          |  |
|------------------------------|--------------|--------------|-------|------------------------|----------|----------|----------|--------------------------------|-----------|----------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 14 OADB: 36 |          |          |          | Mo/Hr: Heating Design OADB: -5 |           |          |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                  | Percent  | Percent  | Percent  | Space Peak                     | Coil Peak | Percent  |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible               | Of Total | Of Total | Of Total | Space Sens                     | Tot Sens  | Of Total |  |
| kW                           | kW           | kW           | kW    | kW                     | (%)      | (%)      | (%)      | kW                             | kW        | (%)      |  |
| Envelope Loads               |              |              |       |                        |          |          |          |                                |           |          |  |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Roof Cond                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Solar                  | 2.05         | 0.00         | 2.05  | 2.05                   | 43       | 54       | 54       | 0.00                           | 0.00      | 0        |  |
| Glass Cond                   | 0.12         | 0.00         | 0.12  | 0.12                   | 3        | 0.12     | 3        | -0.50                          | -0.50     | 0        |  |
| Wall Cond                    | 0.01         | 0.01         | 0.02  | 0.01                   | 0        | 0.01     | 0        | -0.05                          | -0.09     | 0        |  |
| Partition                    | -0.04        | -0.04        | -0.04 | -0.04                  | -1       | -0.04    | -1       | -0.37                          | -0.37     | 0        |  |
| Exposed Floor                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00     | 0        | 0.00                           | 0.00      | 0        |  |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0.00     | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 2.14         | 0.01         | 2.15  | 2.14                   | 45       | 56       | 56       | -0.92                          | -0.96     | 0        |  |
| Internal Loads               |              |              |       |                        |          |          |          |                                |           |          |  |
| Lights                       | 0.63         | 0.16         | 0.79  | 0.63                   | 16       | 16       | 16       | 0.00                           | 0.00      | 0        |  |
| People                       | 1.85         | 0.00         | 1.85  | 1.01                   | 39       | 26       | 26       | 0.00                           | 0.00      | 0        |  |
| Misc                         | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 2.48         | 0.16         | 2.64  | 1.64                   | 55       | 43       | 43       | 0.00                           | 0.00      | 0        |  |
| Ceiling Load                 |              |              |       |                        |          |          |          |                                |           |          |  |
| Ventilation Load             | 0.05         | -0.05        | 0.00  | 0.05                   | 1        | 0        | 1        | -0.02                          | 0         | 0        |  |
| Adj Air Trans Heat           | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Dehumid. Ov Sizing           | 0            | 0            | 0     | 0                      | 0        | 0        | 0        | 0                              | 0         | 0        |  |
| OvUndr Sizing                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Exhaust Heat                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Sup. Fan Heat                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Ret. Fan Heat                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Duct Heat PkUp               | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Reheat at Design             | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Grand Total ==>              | 4.67         | 0.12         | 4.79  | 3.83                   | 100.00   | 100.00   | 100.00   | -0.94                          | -0.97     | 100.00   |  |

| TEMPERATURES |      |         |         |
|--------------|------|---------|---------|
| SADB         | 13.7 | Cooling | Heating |
| Plenum       | 24.5 | 24.3    | 21.9    |
| Return       | 24.3 | 24.3    | 21.9    |
| Ret/OA       | 24.3 | 24.3    | 21.9    |
| Fn MtrTD     | 0.0  | 0.0     | 0.0     |
| Fn BidTD     | 0.0  | 0.0     | 0.0     |
| Fn Frict     | 0.0  | 0.0     | 0.0     |

| AIRFLOWS   |     |         |         |
|------------|-----|---------|---------|
| Vent       | 0   | Cooling | Heating |
| Infil      | 0   | 0       | 0       |
| Supply     | 326 | 326     | 326     |
| MinStop/Rh | 0   | 0       | 0       |
| Return     | 326 | 326     | 326     |
| Exhaust    | 0   | 0       | 0       |
| Rm Exh     | 0   | 0       | 0       |
| Auxil      | 0   | 0       | 0       |

| ENGINEERING CKS |       |         |         |
|-----------------|-------|---------|---------|
| % OA            | 0.0   | Cooling | Heating |
| Lps/m²          | 2.88  | 0.0     | 0.0     |
| Lps/kW          | 68.06 | 2.88    | 2.88    |
| m²/kW           | 23.67 | 23.67   | -8.56   |
| W/m²            | 42.23 | 42.23   | -8.56   |
| No. People      | 11    |         |         |

| COOLING COIL SELECTION |           |              |                |
|------------------------|-----------|--------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR |
| kW                     | kW        | L/s          | °C °C g/kg     |
| Main Clg               | 4.79      | 326          | 24.3 17.0 10.2 |
| Aux Clg                | 0.00      | 0.00         | 0.0 0.0 0.0    |
| Opt Vent               | 0.00      | 0            | 0.0 0.0 0.0    |
| Total                  | 4.79      |              |                |

| AREAS       |     | Glass |
|-------------|-----|-------|
| Gross Total | m²  | (%)   |
| Floor       | 113 |       |
| Part        | 218 |       |
| ExFlr       | 0   |       |
| Roof        | 0   | 0     |
| Wall        | 20  | 63    |

| HEATING COIL SELECTION |              |     |           |
|------------------------|--------------|-----|-----------|
| Capacity               | Coil Airflow | Ent | Lvg       |
| kW                     | L/s          | °C  | °C        |
| Main Htg               | -1.0         | 326 | 21.9 24.5 |
| Aux Htg                | 0.0          | 0   | 0.0 0.0   |
| Preheat                | 0.0          | 0   | 0.0 0.0   |
| Humidif                | 0.0          | 0   | 0.0 0.0   |
| Opt Vent               | 0.0          | 0   | 0.0 0.0   |
| Total                  | -1.0         |     |           |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums rep479190026BG of 194



## Room Checksums

By GOCSA

FC0203 25 SALA REUNIONES V 1/125

| COOLING COIL PEAK            |  |       |        |  |     |  |       |  |              | CLG SPACE PEAK        |  |           |  | HEATING COIL PEAK              |  |          |  | TEMPERATURES |  |         |  |
|------------------------------|--|-------|--------|--|-----|--|-------|--|--------------|-----------------------|--|-----------|--|--------------------------------|--|----------|--|--------------|--|---------|--|
| Peaked at Time: Outside Air: |  |       |        |  |     |  |       |  |              | Mo/Hr: 7 / 1 OADB: 20 |  |           |  | Mo/Hr: Heating Design OADB: -5 |  |          |  |              |  |         |  |
| Sens. + Lat.                 |  | Space | Plenum |  | Net |  | Space |  | Percent      | Space Peak            |  | Coil Peak |  | Percent                        |  | SADB     |  | Cooling      |  | Heating |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  | Plenum   |  | 12.8         |  | 23.6    |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  | Return   |  | 24.3         |  | 21.9    |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  | Ret/OA   |  | 24.3         |  | 21.9    |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  | Fn MtrTD |  | 0.0          |  | 0.0     |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  | Fn BidTD |  | 0.0          |  | 0.0     |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  | Fn Frict |  | 0.0          |  | 0.0     |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  | kW  |  | kW    |  | Of Total (%) | kW                    |  | kW        |  | kW                             |  |          |  |              |  |         |  |
| kW                           |  | kW    | kW     |  |     |  |       |  |              |                       |  |           |  |                                |  |          |  |              |  |         |  |



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| COOLING COIL PEAK               |  |           |  |              |  |               |        |               |           | CLG SPACE PEAK            |                  |              |                |         |                                   |      |                       |        |                    | HEATING COIL PEAK |                  |       |                    |       |         |            |         |        |  | TEMPERATURES |  |          |  |          |  |          |  |
|---------------------------------|--|-----------|--|--------------|--|---------------|--------|---------------|-----------|---------------------------|------------------|--------------|----------------|---------|-----------------------------------|------|-----------------------|--------|--------------------|-------------------|------------------|-------|--------------------|-------|---------|------------|---------|--------|--|--------------|--|----------|--|----------|--|----------|--|
| Peaked at Time:<br>Outside Air: |  |           |  |              | Mo/Hr: 7 / 14<br>OADBWB/HR: 36 / 21 / 11 |               |        |               |           | Mo/Hr: 7 / 14<br>OADB: 36 |                  |              |                |         | Mo/Hr: Heating Design<br>OADB: -5 |      |                       |        |                    | SADB              |                  |       |                    |       | Cooling |            | Heating |        |  |              |  |          |  |          |  |          |  |
| Sens. + Lat.                    |  |           |  |              | Space                                    |               | Plenum |               | Net Total |                           | Percent Of Total |              | Space Sensible |         | Percent Of Total                  |      | Space Peak Space Sens |        | Coil Peak Tot Sens |                   | Percent Of Total |       | Plenum             |       |         |            |         | Return |  | Ret/OA       |  | Fn MtrTD |  | Fn BidTD |  | Fn Frict |  |
| kW                              |  |           |  |              | kW                                       |               | kW     |               | kW        |                           | %                |              | kW             |         | %                                 |      | kW                    |        | kW                 |                   | %                |       | kW                 |       |         |            |         | kW     |  | kW           |  | kW       |  | kW       |  | kW       |  |
| Envelope Loads                  |  |           |  |              |  |               |        |               |           | Envelope Loads            |                  |              |                |         |                                   |      |                       |        |                    | Envelope Loads    |                  |       |                    |       |         |            |         |        |  |              |  |          |  |          |  |          |  |
| Skylite Solar                   |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Skylite Solar      |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Skylite Cond                    |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Skylite Cond       |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Roof Cond                       |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Roof Cond          |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Glass Solar                     |  |           |  |              | 0.57                                     |               | 0.00   |               | 0.57      |                           | 35               |              | 0.57           |         | 41                                |      | 0.00                  |        | 0.00               |                   | 0                |       | Glass Solar        |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Glass Cond                      |  |           |  |              | 0.03                                     |               | 0.00   |               | 0.03      |                           | 2                |              | 0.03           |         | 2                                 |      | -0.14                 |        | -0.14              |                   | 0                |       | Glass Cond         |       |         |            |         | -0.14  |  | -0.14        |  | -0.14    |  | -0.14    |  | -0.14    |  |
| Wall Cond                       |  |           |  |              | 0.01                                     |               | 0.00   |               | 0.01      |                           | 1                |              | 0.01           |         | 1                                 |      | -0.05                 |        | -0.07              |                   | 0                |       | Wall Cond          |       |         |            |         | -0.05  |  | -0.07        |  | -0.07    |  | -0.07    |  | -0.07    |  |
| Partition                       |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Partition          |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Exposed Floor                   |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Exposed Floor      |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Infiltration                    |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Infiltration       |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Sub Total ==>                   |  |           |  |              | 0.61                                     |               | 0.00   |               | 0.61      |                           | 38               |              | 0.61           |         | 44                                |      | -0.19                 |        | -0.21              |                   | 0                |       | Sub Total ==>      |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Internal Loads                  |  |           |  |              |  |               |        |               |           | Internal Loads            |                  |              |                |         |                                   |      |                       |        |                    | Internal Loads    |                  |       |                    |       |         |            |         |        |  |              |  |          |  |          |  |          |  |
| Lights                          |  |           |  |              | 0.20                                     |               | 0.05   |               | 0.25      |                           | 16               |              | 0.20           |         | 14                                |      | 0.00                  |        | 0.00               |                   | 0                |       | Lights             |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| People                          |  |           |  |              | 0.40                                     |               | 0.00   |               | 0.40      |                           | 25               |              | 0.22           |         | 16                                |      | 0.00                  |        | 0.00               |                   | 0                |       | People             |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Misc                            |  |           |  |              | 0.35                                     |               | 0.00   |               | 0.35      |                           | 22               |              | 0.35           |         | 25                                |      | 0.00                  |        | 0.00               |                   | 0                |       | Misc               |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Sub Total ==>                   |  |           |  |              | 0.95                                     |               | 0.05   |               | 1.00      |                           | 62               |              | 0.77           |         | 55                                |      | 0.00                  |        | 0.00               |                   | 0                |       | Sub Total ==>      |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Ceiling Load                    |  |           |  |              | 0.01                                     |               | -0.01  |               | 0.00      |                           | 0                |              | 0.01           |         | 1                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Ceiling Load       |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Ventilation Load                |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Ventilation Load   |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Adj Air Trans Heat              |  |           |  |              | 0  |               | 0.00   |               | 0         |                           | 0                |              | 0              |         | 0                                 |      | 0                     |        | 0                  |                   | 0                |       | Adj Air Trans Heat |       |         |            |         | 0      |  | 0            |  | 0        |  | 0        |  | 0        |  |
| Dehumid. Ov Sizing              |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Dehumid. Ov Sizing |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Ov/Undr Sizing                  |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Ov/Undr Sizing     |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Exhaust Heat                    |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Exhaust Heat       |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Sup. Fan Heat                   |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Sup. Fan Heat      |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Ret. Fan Heat                   |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Ret. Fan Heat      |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Duct Heat Pkup                  |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Duct Heat Pkup     |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Reheat at Design                |  |           |  |              | 0.00                                     |               | 0.00   |               | 0.00      |                           | 0                |              | 0.00           |         | 0                                 |      | 0.00                  |        | 0.00               |                   | 0                |       | Reheat at Design   |       |         |            |         | 0.00   |  | 0.00         |  | 0.00     |  | 0.00     |  | 0.00     |  |
| Grand Total ==>                 |  |           |  |              | 1.57                                     |               | 0.04   |               | 1.61      |                           | 100.00           |              | 1.39           |         | 100.00                            |      | -0.19                 |        | -0.21              |                   | 100.00           |       | Grand Total ==>    |       |         |            |         | 3      |  | -9.28        |  | 0.0      |  | 0.0      |  | 0.0      |  |
| COOLING COIL SELECTION          |  |           |  |              |  |               |        |               |           | HEATING COIL SELECTION    |                  |              |                |         |                                   |      |                       |        |                    | ENGINEERING CKS   |                  |       |                    |       |         |            |         |        |  |              |  |          |  |          |  |          |  |
| Total Capacity                  |  | Sens Cap. |  | Coil Airflow |  | Enter DBWB/HR |        | Leave DBWB/HR |           | Capacity                  |                  | Coil Airflow |                | Ent Lvg |                                   | % OA |                       | Lps/m² |                    | Lps/kW            |                  | m²/kW |                    | W/m²  |         | No. People |         |        |  |              |  |          |  |          |  |          |  |
| kW                              |  | kW        |  | L/s          |  | °C            |        | °C            |           | kW                        |                  | L/s          |                | °C      |                                   | kW   |                       | m²/kW  |                    | Lps/kW            |                  | m²/kW |                    | W/m²  |         | No. People |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 1.61                            |  | 1.44      |  | 137          |  | 17.0          |        | 15.1          |           | -0.2                      |                  | 137          |                | 21.9    |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         | 3          |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       | 6.07   |                    | 84.72             |                  | 13.96 |                    | 71.62 |         |            |         |        |  |              |  |          |  |          |  |          |  |
| 0.00                            |  | 0.00      |  | 0            |  | 0.0           |        | 0.0           |           | 0.0                       |                  | 0            |                | 0.0     |                                   | 0.0  |                       |        |                    |                   |                  |       |                    |       |         |            |         |        |  |              |  |          |  |          |  |          |  |



Room Checksums

By GOCSA

FC0203 27 AREA ADMINISTRATIVA V 1/125

| COOLING COIL PEAK            |       |        |           | CLG SPACE PEAK         |                |                  |                    | HEATING COIL PEAK              |                    |                      |  | TEMPERATURES    |         |         |  |
|------------------------------|-------|--------|-----------|------------------------|----------------|------------------|--------------------|--------------------------------|--------------------|----------------------|--|-----------------|---------|---------|--|
| Peaked at Time: Outside Air: |       |        |           | Mo/Hr: 7 / 14 OADB: 36 |                |                  |                    | Mo/Hr: Heating Design OADB: -5 |                    |                      |  |                 |         |         |  |
| Sens. + Lat.                 | Space | Plenum | Net Total | Percent Of Total       | Space Sensible | Percent Of Total | Envelope Loads     | Space Sens                     | Coil Peak Tot Sens | Percent Of Total (%) |  | SADB            | Cooling | Heating |  |
|                              |       |        |           |                        |                |                  |                    |                                |                    |                      |  |                 |         |         |  |
|                              |       |        |           |                        |                |                  | Envelope Loads     |                                |                    |                      |  |                 |         |         |  |
|                              | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Skylite Solar      | 0.00                           | 0.00               | 0                    |  |                 | 15.5    | 22.9    |  |
|                              | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Skylite Cond       | 0.00                           | 0.00               | 0                    |  | Plenum          | 24.3    | 21.9    |  |
|                              | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Roof Cond          | 0.00                           | 0.00               | 0                    |  | Return          | 24.3    | 21.9    |  |
|                              | 1.14  | 0.00   | 1.14      | 22                     | 1.14           | 25               | Glass Solar        | 0.00                           | 0.00               | 0                    |  | Ret/OA          | 24.3    | 21.9    |  |
|                              | 0.07  | 0.00   | 0.07      | 1                      | 0.07           | 2                | Glass Cond         | -0.28                          | -0.28              | 0                    |  | Fn MtrTD        | 0.0     | 0.0     |  |
|                              | 0.03  | 0.01   | 0.04      | 1                      | 0.03           | 1                | Wall Cond          | -0.18                          | -0.22              | 0                    |  | Fn BidTD        | 0.0     | 0.0     |  |
|                              | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Partition          | 0.00                           | 0.00               | 0                    |  | Fn Frict        | 0.0     | 0.0     |  |
|                              | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Exposed Floor      | 0.00                           | 0.00               | 0                    |  |                 |         |         |  |
|                              | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Infiltration       | 0.00                           | 0.00               | 0                    |  |                 |         |         |  |
|                              | 1.24  | 0.01   | 1.25      | 24                     | 1.24           | 27               | Sub Total ==>      | -0.46                          | -0.50              | 0                    |  |                 |         |         |  |
| Internal Loads               |       |        |           |                        |                |                  |                    |                                |                    |                      |  | AIRFLOWS        |         |         |  |
|                              | 0.39  | 0.10   | 0.49      | 9                      | 0.39           | 8                | Lights             | 0.00                           | 0.00               | 0                    |  | Vent            | Cooling | Heating |  |
|                              | 1.05  |        | 1.05      | 20                     | 0.59           | 13               | People             | 0.00                           | 0.00               | 0                    |  | Infil           | 0       | 0       |  |
|                              | 2.40  | 0.00   | 2.40      | 46                     | 2.40           | 52               | Misc               | 0.00                           | 0.00               | 0                    |  | Supply          | 476     | 476     |  |
|                              | 3.84  | 0.10   | 3.94      | 76                     | 3.38           | 73               | Sub Total ==>      | 0.00                           | 0.00               | 0                    |  | MinStop/Rh      | 0       | 0       |  |
|                              |       |        |           |                        |                |                  | Internal Loads     | 0.00                           | 0.00               | 0                    |  | Return          | 476     | 476     |  |
|                              |       |        |           |                        |                |                  | Lights             | 0.00                           | 0.00               | 0                    |  | Exhaust         | 0       | 0       |  |
|                              |       |        |           |                        |                |                  | People             | 0.00                           | 0.00               | 0                    |  | Rm Exh          | 0       | 0       |  |
|                              |       |        |           |                        |                |                  | Misc               | 0.00                           | 0.00               | 0                    |  | Auxil           | 0       | 0       |  |
|                              |       |        |           |                        |                |                  | Sub Total ==>      | 0.00                           | 0.00               | 0                    |  |                 |         |         |  |
| Ceiling Load                 |       |        |           |                        |                |                  |                    |                                |                    |                      |  | ENGINEERING CKS |         |         |  |
|                              | 0.02  | -0.02  | 0.00      | 0                      | 0.02           | 0                | Ceiling Load       | -0.01                          | 0                  | 0                    |  | % OA            | Cooling | Heating |  |
|                              | 0.00  | 0.00   | 0.00      | 0                      | 0.00           | 0                | Ventilation Load   | 0.00                           | 0.00               | 0                    |  | Lps/m²          | 10.60   | 10.60   |  |
|                              | 0     | 0.00   | 0.00      | 0                      | 0              | 0                | Adj Air Trans Heat | 0                              | 0                  | 0                    |  | Lps/kW          | 91.43   |         |  |
|                              |       |        |           |                        |                |                  | Dehumid. Ov Sizing | 0.00                           | 0.00               | 0                    |  | m²/kW           | 8.63    | -11.20  |  |
|                              | 0.00  |        | 0.00      | 0                      | 0.00           | 0                | OvUndr Sizing      | 0.00                           | 0.00               | 0                    |  | W/m²            | 115.85  |         |  |
|                              |       | 0.00   | 0.00      | 0                      |                |                  | Exhaust Heat       | 0.00                           | 0.00               | 0                    |  | No. People      | 8       |         |  |
|                              |       |        | 0.00      | 0                      |                |                  | OA Preheat Diff.   | 0.00                           | 0.00               | 0                    |  |                 |         |         |  |
|                              |       | 0.00   | 0.00      | 0                      |                |                  | RA Preheat Diff.   | 0.00                           | 0.00               | 0                    |  |                 |         |         |  |
|                              |       | 0.00   | 0.00      | 0                      |                |                  | Additional Reheat  | 0.00                           | 0.00               | 0                    |  |                 |         |         |  |
|                              |       |        | 0.00      | 0                      |                |                  | System Plenum Heat | 0.00                           | 0.00               | 0                    |  |                 |         |         |  |
|                              |       |        |           |                        |                |                  | Grand Total ==>    | -0.47                          | -0.50              | 100.00               |  |                 |         |         |  |

| COOLING COIL SELECTION |              |              |                | AREAS                  |              |                |      |
|------------------------|--------------|--------------|----------------|------------------------|--------------|----------------|------|
| Total Capacity         | Sens Cap.    | Coil Airflow | Enter DB/WB/HR | Gross Total            | Glass m²     | Leave DB/WB/HR |      |
|                        |              | L/s          | °C             |                        | (%)          | °C             |      |
| Main Clg               | 5.20         | 476          | 17.0           | Floor                  | 45           | 15.5           |      |
| Aux Clg                | 0.00         | 0.00         | 0.0            | Part                   | 66           | 13.6           |      |
| Opt Vent               | 0.00         | 0            | 0.0            | ExFlr                  | 0            | 0.0            |      |
|                        |              |              |                | Roof                   | 0            | 0.0            |      |
| Total                  | 5.20         |              |                | Wall                   | 26           | 0.0            |      |
|                        |              |              |                |                        | 7            |                |      |
|                        |              |              |                |                        | 27           |                |      |
| HEATING COIL SELECTION |              |              |                | HEATING COIL SELECTION |              |                |      |
| Capacity               | Coil Airflow | Ent          | Lvg            | Capacity               | Coil Airflow | Ent            | Lvg  |
|                        | kW           | °C           | °C             |                        | L/s          | °C             | °C   |
| Main Htg               | -0.5         | 476          | 21.9           | Main Htg               | 476          | 21.9           | 22.9 |
| Aux Htg                | 0.0          | 0            | 0.0            | Aux Htg                | 0            | 0.0            | 0.0  |
| Preheat                | 0.0          | 0            | 0.0            | Preheat                | 0.0          | 0              | 0.0  |
|                        |              |              |                | Humidif                | 0.0          | 0              | 0.0  |
|                        |              |              |                | Opt Vent               | 0            | 0              | 0.0  |
| Total                  | -0.5         |              |                | Total                  |              |                |      |



Room Checksums

By GOCSA

FC0203 31 AREA DE TRABAJO 2 V 1/125

| COOLING COIL PEAK               |  |  |  |  |   |  |  |  |  | CLG SPACE PEAK            |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK       |  |  |  |  |                            |  |  |  |  | TEMPERATURES                |  |  |  |  |                            |  |  |  |  |
|---------------------------------|--|--|--|--|---|--|--|--|--|---------------------------|--|--|--|--|-----------------------------------|--|--|--|--|-------------------------|--|--|--|--|----------------------------|--|--|--|--|-----------------------------|--|--|--|--|----------------------------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 19<br>OADBWB/HR: 30 / 17 / 8 |  |  |  |  | Mo/Hr: 7 / 19<br>OADB: 30 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB<br>Cooling         |  |  |  |  | Heating                    |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |
| Sens. + Lat.<br>kW              |  |  |  |  | Plenum<br>Sens. + Lat<br>kW             |  |  |  |  | Net<br>Total<br>kW        |  |  |  |  | Percent<br>Of Total<br>(%)        |  |  |  |  | Space<br>Sensible<br>kW |  |  |  |  | Percent<br>Of Total<br>(%) |  |  |  |  | Coil Peak<br>Tot Sens<br>kW |  |  |  |  | Percent<br>Of Total<br>(%) |  |  |  |  |
| Envelope Loads                  |  |  |  |  |   |  |  |  |  | Envelope Loads            |  |  |  |  |                                   |  |  |  |  | Envelope Loads          |  |  |  |  |                            |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |
| Skylite Solar                   |  |  |  |  | 0.00                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Skylite Cond                    |  |  |  |  | 0.00                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Roof Cond                       |  |  |  |  | 0.00                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Glass Solar                     |  |  |  |  | 0.37                                    |  |  |  |  | 0.37                      |  |  |  |  | 28                                |  |  |  |  | 0.37                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  |
| Glass Cond                      |  |  |  |  | 0.02                                    |  |  |  |  | 0.02                      |  |  |  |  | 1                                 |  |  |  |  | 0.02                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0.00                       |  |  |  |  |
| Wall Cond                       |  |  |  |  | 0.03                                    |  |  |  |  | 0.04                      |  |  |  |  | 3                                 |  |  |  |  | 0.03                    |  |  |  |  | -0.07                      |  |  |  |  | -0.07                       |  |  |  |  | 0                          |  |  |  |  |
| Partition                       |  |  |  |  | 0.00                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | -0.11                      |  |  |  |  | -0.14                       |  |  |  |  | 0                          |  |  |  |  |
| Exposed Floor                   |  |  |  |  | 0.00                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Infiltration                    |  |  |  |  | 0.00                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.42                                    |  |  |  |  | 0.43                      |  |  |  |  | 32                                |  |  |  |  | 0.42                    |  |  |  |  | -0.18                      |  |  |  |  | -0.21                       |  |  |  |  | 0                          |  |  |  |  |
| Internal Loads                  |  |  |  |  |   |  |  |  |  | Internal Loads            |  |  |  |  |                                   |  |  |  |  | Internal Loads          |  |  |  |  |                            |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |
| Lights                          |  |  |  |  | 0.13                                    |  |  |  |  | 0.16                      |  |  |  |  | 12                                |  |  |  |  | 0.13                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| People                          |  |  |  |  | 0.40                                    |  |  |  |  | 0.40                      |  |  |  |  | 30                                |  |  |  |  | 0.22                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Misc                            |  |  |  |  | 0.35                                    |  |  |  |  | 0.35                      |  |  |  |  | 26                                |  |  |  |  | 0.35                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.88                                    |  |  |  |  | 0.91                      |  |  |  |  | 68                                |  |  |  |  | 0.70                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Ceiling Load                    |  |  |  |  |   |  |  |  |  | Ceiling Load              |  |  |  |  |                                   |  |  |  |  | Ceiling Load            |  |  |  |  |                            |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |
| Ventilation Load                |  |  |  |  | 0.01                                    |  |  |  |  | -0.01                     |  |  |  |  | 0                                 |  |  |  |  | 0.01                    |  |  |  |  | 0.00                       |  |  |  |  | 0                           |  |  |  |  | 0                          |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | 0.00                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | 0                                       |  |  |  |  | 0                         |  |  |  |  | 0                                 |  |  |  |  | 0                       |  |  |  |  | 0                          |  |  |  |  | 0                           |  |  |  |  | 0                          |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | 0.00                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | 0.00                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | 0.00                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | 0.00                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  | 0.00                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.00                       |  |  |  |  | 0.00                        |  |  |  |  | 0                          |  |  |  |  |
| Reheat at Design                |  |  |  |  | 0.00                                    |  |  |  |  | 0.00                      |  |  |  |  | 0                                 |  |  |  |  | 0.00                    |  |  |  |  | 0.01                       |  |  |  |  | 0.01                        |  |  |  |  | 0                          |  |  |  |  |
| Grand Total ==>                 |  |  |  |  |   |  |  |  |  | Grand Total ==>           |  |  |  |  |                                   |  |  |  |  | Grand Total ==>         |  |  |  |  |                            |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |
| 1.31                            |  |  |  |  | 0.03                                    |  |  |  |  | 1.34                      |  |  |  |  | 100.00                            |  |  |  |  | 1.13                    |  |  |  |  | -0.18                      |  |  |  |  | -0.20                       |  |  |  |  | 100.00                     |  |  |  |  |
| No. People                      |  |  |  |  |   |  |  |  |  | No. People                |  |  |  |  |                                   |  |  |  |  | No. People              |  |  |  |  |                            |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |
| 3                               |  |  |  |  |   |  |  |  |  | 3                         |  |  |  |  |                                   |  |  |  |  | 3                       |  |  |  |  |                            |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |                 |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |                     |  |  |  |  |                     |  |  |  |  |                |  |  |  |  |                     |  |  |  |  |           |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------------|--|--|--|--|------------------------|--|--|--|--|---------------------|--|--|--|--|---------------------|--|--|--|--|----------------|--|--|--|--|---------------------|--|--|--|--|-----------|--|--|--|--|------|--|--|--|--|
| Total Capacity<br>kW   |  |  |  |  | Sens Cap.<br>kW |  |  |  |  | Coil Airflow<br>L/s    |  |  |  |  | Enter DBWB/HR<br>°C |  |  |  |  | Leave DBWB/HR<br>°C |  |  |  |  | Capacity<br>kW |  |  |  |  | Coil Airflow<br>L/s |  |  |  |  | Lvg<br>°C |  |  |  |  |      |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0                 |  |  |  |  | 0.0       |  |  |  |  | 0.0  |  |  |  |  |
| 1.33                   |  |  |  |  | 1.15            |  |  |  |  | 105                    |  |  |  |  | 24.3                |  |  |  |  | 14.6                |  |  |  |  | -0.2           |  |  |  |  | 105                 |  |  |  |  | 21.9      |  |  |  |  | 23.6 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00            |  |  |  |  | 0                      |  |  |  |  | 0.0                 |  |  |  |  | 0.0                 |  |  |  |  | 0.0            |  |  |  |  | 0.0</               |  |  |  |  |           |  |  |  |  |      |  |  |  |  |



Room Checksums

By GOCSA

FC0203 40 TALLER V 5/13

| COOLING COIL PEAK               |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK            |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |           |  |  |  |  | TEMPERATURES       |  |  |  |  |        |  |  |  |  |                    |  |  |  |  |          |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|-----------------------------------|--|--|--|--|--------------------|--|--|--|--|-----------|--|--|--|--|--------------------|--|--|--|--|--------|--|--|--|--|--------------------|--|--|--|--|----------|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 14<br>OADBWB/HR: 36 / 21 / 11 |  |  |  |  | Mo/Hr: 7 / 14<br>OADB: 36 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB               |  |  |  |  | Cooling   |  |  |  |  | Heating            |  |  |  |  |        |  |  |  |  |                    |  |  |  |  |          |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | Plenum                                   |  |  |  |  | Net                       |  |  |  |  | Space                             |  |  |  |  | Space Peak         |  |  |  |  | Coil Peak |  |  |  |  | Percent            |  |  |  |  | Return |  |  |  |  | Plenum             |  |  |  |  |          |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| kW                              |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | Sensible                          |  |  |  |  | kW                 |  |  |  |  | kW        |  |  |  |  | Tot Sens           |  |  |  |  | kW     |  |  |  |  | Ret/OA             |  |  |  |  | Fn MtrTD |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| %                               |  |  |  |  | %  |  |  |  |  | %                         |  |  |  |  | %                                 |  |  |  |  | %                  |  |  |  |  | %         |  |  |  |  | %                  |  |  |  |  | %      |  |  |  |  | %                  |  |  |  |  | %        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Envelope Loads                  |  |  |  |  |  |  |  |  |  | Envelope Loads            |  |  |  |  |                                   |  |  |  |  | Envelope Loads     |  |  |  |  |           |  |  |  |  | Envelope Loads     |  |  |  |  |        |  |  |  |  | Envelope Loads     |  |  |  |  |          |  |  |  |  | Envelope Loads     |  |  |  |  |  |  |  |  |  | Envelope Loads     |  |  |  |  |  |  |  |  |  | Envelope Loads     |  |  |  |  |  |  |  |  |  |
| Skylite Solar                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Skylite Cond                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Roof Cond                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Glass Solar                     |  |  |  |  | 1.20                                     |  |  |  |  | 1.20                      |  |  |  |  | 1.20                              |  |  |  |  | 1.20               |  |  |  |  | 1.20      |  |  |  |  | 1.20               |  |  |  |  | 1.20   |  |  |  |  | 1.20               |  |  |  |  | 1.20     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Glass Cond                      |  |  |  |  | 0.07                                     |  |  |  |  | 0.07                      |  |  |  |  | 0.07                              |  |  |  |  | 0.07               |  |  |  |  | 0.07      |  |  |  |  | 0.07               |  |  |  |  | 0.07   |  |  |  |  | 0.07               |  |  |  |  | 0.07     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Wall Cond                       |  |  |  |  | 0.03                                     |  |  |  |  | 0.04                      |  |  |  |  | 0.03                              |  |  |  |  | 0.03               |  |  |  |  | 0.03      |  |  |  |  | 0.03               |  |  |  |  | 0.03   |  |  |  |  | 0.03               |  |  |  |  | 0.03     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Partition                       |  |  |  |  | -0.05                                    |  |  |  |  | -0.05                     |  |  |  |  | -0.05                             |  |  |  |  | -0.05              |  |  |  |  | -0.05     |  |  |  |  | -0.05              |  |  |  |  | -0.05  |  |  |  |  | -0.05              |  |  |  |  | -0.05    |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Exposed Floor                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Infiltration                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 1.25                                     |  |  |  |  | 1.26                      |  |  |  |  | 1.25                              |  |  |  |  | 1.25               |  |  |  |  | -0.88     |  |  |  |  | -0.92              |  |  |  |  | 0      |  |  |  |  | 0                  |  |  |  |  |          |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Internal Loads                  |  |  |  |  |  |  |  |  |  | Internal Loads            |  |  |  |  |                                   |  |  |  |  | Internal Loads     |  |  |  |  |           |  |  |  |  | Internal Loads     |  |  |  |  |        |  |  |  |  | Internal Loads     |  |  |  |  |          |  |  |  |  | Internal Loads     |  |  |  |  |  |  |  |  |  | Internal Loads     |  |  |  |  |  |  |  |  |  | Internal Loads     |  |  |  |  |  |  |  |  |  |
| Lights                          |  |  |  |  | 0.53                                     |  |  |  |  | 0.66                      |  |  |  |  | 0.53                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| People                          |  |  |  |  | 0.79                                     |  |  |  |  | 0.79                      |  |  |  |  | 0.44                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Misc                            |  |  |  |  | 1.80                                     |  |  |  |  | 1.80                      |  |  |  |  | 1.80                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 3.12                                     |  |  |  |  | 3.25                      |  |  |  |  | 2.77                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Ceiling Load                    |  |  |  |  |  |  |  |  |  | Ceiling Load              |  |  |  |  |                                   |  |  |  |  | Ceiling Load       |  |  |  |  |           |  |  |  |  | Ceiling Load       |  |  |  |  |        |  |  |  |  | Ceiling Load       |  |  |  |  |          |  |  |  |  | Ceiling Load       |  |  |  |  |  |  |  |  |  | Ceiling Load       |  |  |  |  |  |  |  |  |  | Ceiling Load       |  |  |  |  |  |  |  |  |  |
| 0.03                            |  |  |  |  | -0.03                                    |  |  |  |  | 0.00                      |  |  |  |  | 0.03                              |  |  |  |  | -0.01              |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Ventilation Load                |  |  |  |  |  |  |  |  |  | Ventilation Load          |  |  |  |  |                                   |  |  |  |  | Ventilation Load   |  |  |  |  |           |  |  |  |  | Ventilation Load   |  |  |  |  |        |  |  |  |  | Ventilation Load   |  |  |  |  |          |  |  |  |  | Ventilation Load   |  |  |  |  |  |  |  |  |  | Ventilation Load   |  |  |  |  |  |  |  |  |  | Ventilation Load   |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  |  |  |  |  |  | Adj Air Trans Heat        |  |  |  |  |                                   |  |  |  |  | Adj Air Trans Heat |  |  |  |  |           |  |  |  |  | Adj Air Trans Heat |  |  |  |  |        |  |  |  |  | Adj Air Trans Heat |  |  |  |  |          |  |  |  |  | Adj Air Trans Heat |  |  |  |  |  |  |  |  |  | Adj Air Trans Heat |  |  |  |  |  |  |  |  |  | Adj Air Trans Heat |  |  |  |  |  |  |  |  |  |
| 0                               |  |  |  |  | 0  |  |  |  |  | 0                         |  |  |  |  | 0                                 |  |  |  |  | 0                  |  |  |  |  | 0         |  |  |  |  | 0                  |  |  |  |  | 0      |  |  |  |  | 0                  |  |  |  |  | 0        |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  |  |  |  |  |  | Dehumid. Ov Sizing        |  |  |  |  |                                   |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |           |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |        |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |          |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |  |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |  |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  |  |  |  |  |  | Ov/Undr Sizing            |  |  |  |  |                                   |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |           |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |        |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |          |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |  |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |  |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Exhaust Heat                    |  |  |  |  |  |  |  |  |  | Exhaust Heat              |  |  |  |  |                                   |  |  |  |  | Exhaust Heat       |  |  |  |  |           |  |  |  |  | Exhaust Heat       |  |  |  |  |        |  |  |  |  | Exhaust Heat       |  |  |  |  |          |  |  |  |  | Exhaust Heat       |  |  |  |  |  |  |  |  |  | Exhaust Heat       |  |  |  |  |  |  |  |  |  | Exhaust Heat       |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  |  |  |  |  |  | Sup. Fan Heat             |  |  |  |  |                                   |  |  |  |  | Sup. Fan Heat      |  |  |  |  |           |  |  |  |  | Sup. Fan Heat      |  |  |  |  |        |  |  |  |  | Sup. Fan Heat      |  |  |  |  |          |  |  |  |  | Sup. Fan Heat      |  |  |  |  |  |  |  |  |  | Sup. Fan Heat      |  |  |  |  |  |  |  |  |  | Sup. Fan Heat      |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  |  |  |  |  |  | Ret. Fan Heat             |  |  |  |  |                                   |  |  |  |  | Ret. Fan Heat      |  |  |  |  |           |  |  |  |  | Ret. Fan Heat      |  |  |  |  |        |  |  |  |  | Ret. Fan Heat      |  |  |  |  |          |  |  |  |  | Ret. Fan Heat      |  |  |  |  |  |  |  |  |  | Ret. Fan Heat      |  |  |  |  |  |  |  |  |  | Ret. Fan Heat      |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  |  |  |  |  |  | Duct Heat Pkup            |  |  |  |  |                                   |  |  |  |  | Duct Heat Pkup     |  |  |  |  |           |  |  |  |  | Duct Heat Pkup     |  |  |  |  |        |  |  |  |  | Duct Heat Pkup     |  |  |  |  |          |  |  |  |  | Duct Heat Pkup     |  |  |  |  |  |  |  |  |  | Duct Heat Pkup     |  |  |  |  |  |  |  |  |  | Duct Heat Pkup     |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Reheat at Design                |  |  |  |  |  |  |  |  |  | Reheat at Design          |  |  |  |  |                                   |  |  |  |  | Reheat at Design   |  |  |  |  |           |  |  |  |  | Reheat at Design   |  |  |  |  |        |  |  |  |  | Reheat at Design   |  |  |  |  |          |  |  |  |  | Reheat at Design   |  |  |  |  |  |  |  |  |  | Reheat at Design   |  |  |  |  |  |  |  |  |  | Reheat at Design   |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                      |  |  |  |  | 0.00                              |  |  |  |  | 0.00               |  |  |  |  | 0.00      |  |  |  |  | 0.00               |  |  |  |  | 0.00   |  |  |  |  | 0.00               |  |  |  |  | 0.00     |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |
| Grand Total ==>                 |  |  |  |  |  |  |  |  |  | Grand Total ==>           |  |  |  |  |                                   |  |  |  |  | Grand Total ==>    |  |  |  |  |           |  |  |  |  | Grand Total ==>    |  |  |  |  |        |  |  |  |  | Grand Total ==>    |  |  |  |  |          |  |  |  |  | Grand Total ==>    |  |  |  |  |  |  |  |  |  | Grand Total ==>    |  |  |  |  |  |  |  |  |  | Grand Total ==>    |  |  |  |  |  |  |  |  |  |
| 4.40                            |  |  |  |  | 0.11                                     |  |  |  |  | 4.51                      |  |  |  |  | 4.05                              |  |  |  |  | -0.89              |  |  |  |  | -0.92     |  |  |  |  | 100.00             |  |  |  |  | 6      |  |  |  |  | No. People         |  |  |  |  |          |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |       |  |  |  |  |       |  |  |  |  |      |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|-------|--|--|--|--|-------|--|--|--|--|------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Enter |  |  |  |  | Leave |  |  |  |  | Lvg  |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | °C    |  |  |  |  | °C    |  |  |  |  | L/s  |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 4.50                   |  |  |  |  | 4.15      |  |  |  |  | 425                    |  |  |  |  | 24.3  |  |  |  |  | 17.0  |  |  |  |  | 15.7 |  |  |  |  | 425 |  |  |  |  | 21.9 |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0   |  |  |  |  | 0.0  |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |       |  |  |  |  |      |  |  |  |  |     |  |  |  |  |      |  |  |  |  |



Room Checksums

By GOCSA

FC0203 41 TALLER V 5/13

| COOLING COIL PEAK               |  |  |  |  | CLG SPACE PEAK                           |  |  |  |  | HEATING COIL PEAK                 |  |  |  |  | TEMPERATURES               |  |  |  |  |                                |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|----------------------------|--|--|--|--|--------------------------------|--|--|--|--|-----------------------------|--|--|--|--|----------------------------|--|--|--|--|--------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 14<br>OADBWB/HR: 36 / 21 / 11 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB<br>Cooling<br>Heating |  |  |  |  |                                |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| Space<br>Sens. + Lat.<br>kW     |  |  |  |  | Plenum<br>Sens. + Lat.<br>kW             |  |  |  |  | Net<br>Total<br>kW                |  |  |  |  | Percent<br>Of Total<br>(%) |  |  |  |  | Space Peak<br>Space Sens<br>kW |  |  |  |  | Coil Peak<br>Tot Sens<br>kW |  |  |  |  | Percent<br>Of Total<br>(%) |  |  |  |  |        |  |  |  |  |
| Envelope Loads                  |  |  |  |  | Envelope Loads                           |  |  |  |  | Envelope Loads                    |  |  |  |  | Envelope Loads             |  |  |  |  | Envelope Loads                 |  |  |  |  | Envelope Loads              |  |  |  |  | Envelope Loads             |  |  |  |  |        |  |  |  |  |
| Skylite Solar                   |  |  |  |  | Skylite Solar                            |  |  |  |  | Skylite Solar                     |  |  |  |  | Skylite Solar              |  |  |  |  | Skylite Solar                  |  |  |  |  | Skylite Solar               |  |  |  |  | Skylite Solar              |  |  |  |  |        |  |  |  |  |
| Skylite Cond                    |  |  |  |  | Skylite Cond                             |  |  |  |  | Skylite Cond                      |  |  |  |  | Skylite Cond               |  |  |  |  | Skylite Cond                   |  |  |  |  | Skylite Cond                |  |  |  |  | Skylite Cond               |  |  |  |  |        |  |  |  |  |
| Roof Cond                       |  |  |  |  | Roof Cond                                |  |  |  |  | Roof Cond                         |  |  |  |  | Roof Cond                  |  |  |  |  | Roof Cond                      |  |  |  |  | Roof Cond                   |  |  |  |  | Roof Cond                  |  |  |  |  |        |  |  |  |  |
| Glass Solar                     |  |  |  |  | Glass Solar                              |  |  |  |  | Glass Solar                       |  |  |  |  | Glass Solar                |  |  |  |  | Glass Solar                    |  |  |  |  | Glass Solar                 |  |  |  |  | Glass Solar                |  |  |  |  |        |  |  |  |  |
| Glass Cond                      |  |  |  |  | Glass Cond                               |  |  |  |  | Glass Cond                        |  |  |  |  | Glass Cond                 |  |  |  |  | Glass Cond                     |  |  |  |  | Glass Cond                  |  |  |  |  | Glass Cond                 |  |  |  |  |        |  |  |  |  |
| Wall Cond                       |  |  |  |  | Wall Cond                                |  |  |  |  | Wall Cond                         |  |  |  |  | Wall Cond                  |  |  |  |  | Wall Cond                      |  |  |  |  | Wall Cond                   |  |  |  |  | Wall Cond                  |  |  |  |  |        |  |  |  |  |
| Partition                       |  |  |  |  | Partition                                |  |  |  |  | Partition                         |  |  |  |  | Partition                  |  |  |  |  | Partition                      |  |  |  |  | Partition                   |  |  |  |  | Partition                  |  |  |  |  |        |  |  |  |  |
| Exposed Floor                   |  |  |  |  | Exposed Floor                            |  |  |  |  | Exposed Floor                     |  |  |  |  | Exposed Floor              |  |  |  |  | Exposed Floor                  |  |  |  |  | Exposed Floor               |  |  |  |  | Exposed Floor              |  |  |  |  |        |  |  |  |  |
| Infiltration                    |  |  |  |  | Infiltration                             |  |  |  |  | Infiltration                      |  |  |  |  | Infiltration               |  |  |  |  | Infiltration                   |  |  |  |  | Infiltration                |  |  |  |  | Infiltration               |  |  |  |  |        |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | Sub Total ==>                            |  |  |  |  | Sub Total ==>                     |  |  |  |  | Sub Total ==>              |  |  |  |  | Sub Total ==>                  |  |  |  |  | Sub Total ==>               |  |  |  |  | Sub Total ==>              |  |  |  |  |        |  |  |  |  |
| Internal Loads                  |  |  |  |  | Internal Loads                           |  |  |  |  | Internal Loads                    |  |  |  |  | Internal Loads             |  |  |  |  | Internal Loads                 |  |  |  |  | Internal Loads              |  |  |  |  | Internal Loads             |  |  |  |  |        |  |  |  |  |
| Lights                          |  |  |  |  | Lights                                   |  |  |  |  | Lights                            |  |  |  |  | Lights                     |  |  |  |  | Lights                         |  |  |  |  | Lights                      |  |  |  |  | Lights                     |  |  |  |  |        |  |  |  |  |
| People                          |  |  |  |  | People                                   |  |  |  |  | People                            |  |  |  |  | People                     |  |  |  |  | People                         |  |  |  |  | People                      |  |  |  |  | People                     |  |  |  |  |        |  |  |  |  |
| Misc                            |  |  |  |  | Misc                                     |  |  |  |  | Misc                              |  |  |  |  | Misc                       |  |  |  |  | Misc                           |  |  |  |  | Misc                        |  |  |  |  | Misc                       |  |  |  |  |        |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | Sub Total ==>                            |  |  |  |  | Sub Total ==>                     |  |  |  |  | Sub Total ==>              |  |  |  |  | Sub Total ==>                  |  |  |  |  | Sub Total ==>               |  |  |  |  | Sub Total ==>              |  |  |  |  |        |  |  |  |  |
| Ceiling Load                    |  |  |  |  | Ceiling Load                             |  |  |  |  | Ceiling Load                      |  |  |  |  | Ceiling Load               |  |  |  |  | Ceiling Load                   |  |  |  |  | Ceiling Load                |  |  |  |  | Ceiling Load               |  |  |  |  |        |  |  |  |  |
| Ventilation Load                |  |  |  |  | Ventilation Load                         |  |  |  |  | Ventilation Load                  |  |  |  |  | Ventilation Load           |  |  |  |  | Ventilation Load               |  |  |  |  | Ventilation Load            |  |  |  |  | Ventilation Load           |  |  |  |  |        |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | Adj Air Trans Heat                       |  |  |  |  | Adj Air Trans Heat                |  |  |  |  | Adj Air Trans Heat         |  |  |  |  | Adj Air Trans Heat             |  |  |  |  | Adj Air Trans Heat          |  |  |  |  | Adj Air Trans Heat         |  |  |  |  |        |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | Dehumid. Ov Sizing                       |  |  |  |  | Dehumid. Ov Sizing                |  |  |  |  | Dehumid. Ov Sizing         |  |  |  |  | Dehumid. Ov Sizing             |  |  |  |  | Dehumid. Ov Sizing          |  |  |  |  | Dehumid. Ov Sizing         |  |  |  |  |        |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | Ov/Undr Sizing                           |  |  |  |  | Ov/Undr Sizing                    |  |  |  |  | Ov/Undr Sizing             |  |  |  |  | Ov/Undr Sizing                 |  |  |  |  | Ov/Undr Sizing              |  |  |  |  | Ov/Undr Sizing             |  |  |  |  |        |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | Exhaust Heat                             |  |  |  |  | Exhaust Heat                      |  |  |  |  | Exhaust Heat               |  |  |  |  | Exhaust Heat                   |  |  |  |  | Exhaust Heat                |  |  |  |  | Exhaust Heat               |  |  |  |  |        |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | Sup. Fan Heat                            |  |  |  |  | Sup. Fan Heat                     |  |  |  |  | Sup. Fan Heat              |  |  |  |  | Sup. Fan Heat                  |  |  |  |  | Sup. Fan Heat               |  |  |  |  | Sup. Fan Heat              |  |  |  |  |        |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | Ret. Fan Heat                            |  |  |  |  | Ret. Fan Heat                     |  |  |  |  | Ret. Fan Heat              |  |  |  |  | Ret. Fan Heat                  |  |  |  |  | Ret. Fan Heat               |  |  |  |  | Ret. Fan Heat              |  |  |  |  |        |  |  |  |  |
| Duct Heat PkUp                  |  |  |  |  | Duct Heat PkUp                           |  |  |  |  | Duct Heat PkUp                    |  |  |  |  | Duct Heat PkUp             |  |  |  |  | Duct Heat PkUp                 |  |  |  |  | Duct Heat PkUp              |  |  |  |  | Duct Heat PkUp             |  |  |  |  |        |  |  |  |  |
| Reheat at Design                |  |  |  |  | Reheat at Design                         |  |  |  |  | Reheat at Design                  |  |  |  |  | Reheat at Design           |  |  |  |  | Reheat at Design               |  |  |  |  | Reheat at Design            |  |  |  |  | Reheat at Design           |  |  |  |  |        |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | Grand Total ==>                          |  |  |  |  | Grand Total ==>                   |  |  |  |  | Grand Total ==>            |  |  |  |  | Grand Total ==>                |  |  |  |  | Grand Total ==>             |  |  |  |  | Grand Total ==>            |  |  |  |  |        |  |  |  |  |
| 4.54                            |  |  |  |  | 0.12                                     |  |  |  |  | 4.66                              |  |  |  |  | 100.00                     |  |  |  |  | 4.19                           |  |  |  |  | -0.80                       |  |  |  |  | -0.84                      |  |  |  |  | 100.00 |  |  |  |  |
| No. People                      |  |  |  |  | 6  |  |  |  |  |                                   |  |  |  |  |                            |  |  |  |  |                                |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| ENGINEERING CKS                 |  |  |  |  | ENGINEERING CKS                          |  |  |  |  | ENGINEERING CKS                   |  |  |  |  | ENGINEERING CKS            |  |  |  |  | ENGINEERING CKS                |  |  |  |  | ENGINEERING CKS             |  |  |  |  | ENGINEERING CKS            |  |  |  |  |        |  |  |  |  |
| % OA                            |  |  |  |  | % OA                                     |  |  |  |  | % OA                              |  |  |  |  | % OA                       |  |  |  |  | % OA                           |  |  |  |  | % OA                        |  |  |  |  | % OA                       |  |  |  |  | % OA   |  |  |  |  |
| Lps/m²                          |  |  |  |  | Lps/m²                                   |  |  |  |  | Lps/m²                            |  |  |  |  | Lps/m²                     |  |  |  |  | Lps/m²                         |  |  |  |  | Lps/m²                      |  |  |  |  | Lps/m²                     |  |  |  |  |        |  |  |  |  |
| Lps/kW                          |  |  |  |  | Lps/kW                                   |  |  |  |  | Lps/kW                            |  |  |  |  | Lps/kW                     |  |  |  |  | Lps/kW                         |  |  |  |  | Lps/kW                      |  |  |  |  | Lps/kW                     |  |  |  |  |        |  |  |  |  |
| m²/kW                           |  |  |  |  | m²/kW                                    |  |  |  |  | m²/kW                             |  |  |  |  | m²/kW                      |  |  |  |  | m²/kW                          |  |  |  |  | m²/kW                       |  |  |  |  | m²/kW                      |  |  |  |  |        |  |  |  |  |
| W/m²                            |  |  |  |  | W/m²                                     |  |  |  |  | W/m²                              |  |  |  |  | W/m²                       |  |  |  |  | W/m²                           |  |  |  |  | W/m²                        |  |  |  |  | W/m²                       |  |  |  |  |        |  |  |  |  |
| 13.58                           |  |  |  |  | 73.59                                    |  |  |  |  | -13.37                            |  |  |  |  |                            |  |  |  |  |                                |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 7.01                                     |  |  |  |  | 95.20                             |  |  |  |  | 7.01                       |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  | 0.0                            |  |  |  |  | 0.0                         |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| 0.0                             |  |  |  |  | 0.0                                      |  |  |  |  | 0.0                               |  |  |  |  | 0.0                        |  |  |  |  |                                |  |  |  |  |                             |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |



Room Checksums

By GOCSA

FC0203 42 TALLER V 5/13

| COOLING COIL PEAK               |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK            |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK        |  |  |  |  |                       |  |  |  |  | TEMPERATURES        |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|-----------------------------------|--|--|--|--|--------------------------|--|--|--|--|-----------------------|--|--|--|--|---------------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 14<br>OADBWB/HR: 36 / 21 / 11 |  |  |  |  | Mo/Hr: 7 / 14<br>OADB: 36 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB<br>15.5<br>Cooling  |  |  |  |  | Heating<br>24.1       |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | Plenum                                   |  |  |  |  | Net Total                 |  |  |  |  | Space Sensible                    |  |  |  |  | Space Peak<br>Space Sens |  |  |  |  | Coil Peak<br>Tot Sens |  |  |  |  | Percent<br>Of Total |  |  |  |  |  |  |  |  |  |
| kW                              |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                       |  |  |  |  | kW                    |  |  |  |  | %                   |  |  |  |  |  |  |  |  |  |
| Envelope Loads                  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Envelope Loads           |  |  |  |  |                       |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Skylite Solar                   |  |  |  |  | Skylite Solar                            |  |  |  |  | 0                         |  |  |  |  | 0.00                              |  |  |  |  | 0.00                     |  |  |  |  | 0                     |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Skylite Cond                    |  |  |  |  | Skylite Cond                             |  |  |  |  | 0                         |  |  |  |  | 0.00                              |  |  |  |  | 0.00                     |  |  |  |  | 0                     |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Roof Cond                       |  |  |  |  | Roof Cond                                |  |  |  |  | 0                         |  |  |  |  | 0.00                              |  |  |  |  | 0.00                     |  |  |  |  | 0                     |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Glass Solar                     |  |  |  |  | Glass Solar                              |  |  |  |  | 30                        |  |  |  |  | 1.20                              |  |  |  |  | 0.00                     |  |  |  |  | 0.00                  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Glass Cond                      |  |  |  |  | Glass Cond                               |  |  |  |  | 2                         |  |  |  |  | 0.07                              |  |  |  |  | -0.29                    |  |  |  |  | -0.29                 |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Wall Cond                       |  |  |  |  | Wall Cond                                |  |  |  |  | 2                         |  |  |  |  | 0.05                              |  |  |  |  | -0.29                    |  |  |  |  | -0.36                 |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Partition                       |  |  |  |  | Partition                                |  |  |  |  | -1                        |  |  |  |  | -0.03                             |  |  |  |  | -0.29                    |  |  |  |  | 0                     |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Exposed Floor                   |  |  |  |  | Exposed Floor                            |  |  |  |  | 0                         |  |  |  |  | 0.00                              |  |  |  |  | 0.00                     |  |  |  |  | 0                     |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Infiltration                    |  |  |  |  | Infiltration                             |  |  |  |  | 0                         |  |  |  |  | 0.00                              |  |  |  |  | 0.00                     |  |  |  |  | 0                     |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 1.30                                     |  |  |  |  | 33                        |  |  |  |  | 1.29                              |  |  |  |  | -0.87                    |  |  |  |  | -0.94                 |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Internal Loads                  |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Internal Loads           |  |  |  |  |                       |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Lights                          |  |  |  |  | 0.51                                     |  |  |  |  | 13                        |  |  |  |  | 0.41                              |  |  |  |  | 0.00                     |  |  |  |  | 0.00                  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| People                          |  |  |  |  | 0.79                                     |  |  |  |  | 20                        |  |  |  |  | 0.44                              |  |  |  |  | 0.00                     |  |  |  |  | 0.00                  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Misc                            |  |  |  |  | 1.40                                     |  |  |  |  | 35                        |  |  |  |  | 1.40                              |  |  |  |  | 0.00                     |  |  |  |  | 0.00                  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 2.70                                     |  |  |  |  | 68                        |  |  |  |  | 2.25                              |  |  |  |  | 0.00                     |  |  |  |  | 0.00                  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Ceiling Load                    |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Ceiling Load             |  |  |  |  |                       |  |  |  |  | 0                   |  |  |  |  |  |  |  |  |  |
| Ventilation Load                |  |  |  |  | -0.02                                    |  |  |  |  | 0                         |  |  |  |  | 0.02                              |  |  |  |  | -0.01                    |  |  |  |  | 0                     |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| 0.00                            |  |  |  |  | 0.00                                     |  |  |  |  | 0                         |  |  |  |  | 0.00                              |  |  |  |  | 0.00                     |  |  |  |  | 0.00                  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | 0  |  |  |  |  | 0                         |  |  |  |  | 0                                 |  |  |  |  | 0                        |  |  |  |  | 0                     |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Dehumid. Ov Sizing       |  |  |  |  |                       |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | 0.00                                     |  |  |  |  | 0                         |  |  |  |  | 0.00                              |  |  |  |  | 0.00                     |  |  |  |  | 0                     |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | 0.00                                     |  |  |  |  | 0                         |  |  |  |  | 0.00                              |  |  |  |  | 0.00                     |  |  |  |  | 0                     |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | 0.00                                     |  |  |  |  | 0                         |  |  |  |  | 0.00                              |  |  |  |  | 0.00                     |  |  |  |  | 0                     |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | 0.00                                     |  |  |  |  | 0                         |  |  |  |  | 0.00                              |  |  |  |  | 0.00                     |  |  |  |  | 0                     |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  | 0.00                                     |  |  |  |  | 0                         |  |  |  |  | 0.00                              |  |  |  |  | 0.00                     |  |  |  |  | 0                     |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Reheat at Design                |  |  |  |  | 0.00                                     |  |  |  |  | 0                         |  |  |  |  | 0.00                              |  |  |  |  | 0.03                     |  |  |  |  | -19.51                |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | 3.91                                     |  |  |  |  | 100.00                    |  |  |  |  | 3.56                              |  |  |  |  | -0.88                    |  |  |  |  | -0.91                 |  |  |  |  | 100.00              |  |  |  |  |  |  |  |  |  |
| No. People                      |  |  |  |  | 6  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                          |  |  |  |  |                       |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-----|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Ent |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C  |  |  |  |  |      |  |  |  |  |
| Main Cig               |  |  |  |  | 4.01      |  |  |  |  | 3.66                   |  |  |  |  | 367      |  |  |  |  | -0.9         |  |  |  |  | 367 |  |  |  |  | 21.9 |  |  |  |  |
| Aux Cig                |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0.0 |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0   |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 4.01      |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
| Main Htg               |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
| Aux Htg                |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
| Preheat                |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
| Humidif                |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
| Opt Vent               |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |
| Total                  |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  |     |  |  |  |  |      |  |  |  |  |







FC0205 01 ASEO EX 4/150

| COOLING COIL PEAK            |           |              |        | CLG SPACE PEAK                   |        |          |        | HEATING COIL PEAK              |                    |                  |            | TEMPERATURES |         |         |  |
|------------------------------|-----------|--------------|--------|----------------------------------|--------|----------|--------|--------------------------------|--------------------|------------------|------------|--------------|---------|---------|--|
| Peaked at Time: Outside Air: |           |              |        | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |        |          |        | Mo/Hr: Heating Design OADB: -5 |                    |                  |            |              |         |         |  |
| Total Capacity               | Sens Cap. | Coil Airflow | Enter  | DB/WB/HR                         | Leave  | DB/WB/HR | Enter  | Sens Cap.                      | Coil Airflow       | Enter            | DB/WB/HR   | SADB         | Cooling | Heating |  |
| kW                           | kW        | L/s          | °C     | °C                               | g/kg   | °C       | g/kg   | kW                             | L/s                | °C               | g/kg       | Plenum       | 24.2    | 26.2    |  |
| Main Clg                     | 0.00      | 0            | 24.2   | 14.7                             | 7.4    | 12.8     | 10.3   | 0.00                           | 0                  | 0                | 0          | Return       | 24.2    | 21.9    |  |
| Aux Clg                      | 0.00      | 0            | 0.0    | 0.0                              | 0.0    | 0.0      | 0.0    | 0.00                           | 0                  | 0                | 0          | Ret/OA       | 24.2    | 21.9    |  |
| Opt Vent                     | 0.00      | 0            | 0.0    | 0.0                              | 0.0    | 0.0      | 0.0    | 0.00                           | 0                  | 0                | 0          | Fn MtrTD     | 0.0     | 0.0     |  |
| Total                        | 0.00      |              |        |                                  |        |          |        | 0.00                           | 0                  | 0                | 0          | Fn BidTD     | 0.0     | 0.0     |  |
|                              |           |              |        |                                  |        |          |        | 0.00                           | 0                  | 0                | 0          | Fn Frict     | 0.0     | 0.0     |  |
| COOLING COIL SELECTION       |           |              |        | COOLING COIL SELECTION           |        |          |        | AIR FLOWS                      |                    |                  |            |              |         |         |  |
| Total Capacity               | Sens Cap. | Coil Airflow | Enter  | DB/WB/HR                         | Leave  | DB/WB/HR | Enter  | Space Sens                     | Coil Peak Tot Sens | Percent Of Total | Space Sens | Vent         | Cooling | Heating |  |
| kW                           | kW        | L/s          | °C     | °C                               | g/kg   | °C       | g/kg   | kW                             | kW                 | (%)              | kW         | Infil        | 0       | 0       |  |
| Ceiling Load                 | 0.00      | 0            | 0      | 0                                | 0      | 0        | 0      | 0.00                           | 0.00               | 0                | 0.00       | Supply       | 0       | 0       |  |
| Ventilation Load             | 0.00      | 0            | 0      | 0                                | 0      | 0        | 0      | 0.00                           | 0.00               | 0                | 0.00       | MinStop/Rh   | 0       | 0       |  |
| Adj Air Trans Heat           | 0         | 0            | 0      | 0                                | 0      | 0        | 0      | 0.00                           | 0.00               | 0                | 0.00       | Return       | 0       | 0       |  |
| Dehumid. Ov Sizing           | 0.00      | 0            | 0      | 0                                | 0      | 0        | 0      | 0.00                           | 0.00               | 0                | 0.00       | Exhaust      | 0       | 0       |  |
| OvUndr Sizing                | 0.00      | 0            | 0      | 0                                | 0      | 0        | 0      | 0.00                           | 0.00               | 0                | 0.00       | Rm Exh       | 0       | 0       |  |
| Exhaust Heat                 | 0.00      | 0            | 0      | 0                                | 0      | 0        | 0      | 0.00                           | 0.00               | 0                | 0.00       | Auxil        | 0       | 0       |  |
| Sup. Fan Heat                | 0.00      | 0            | 0      | 0                                | 0      | 0        | 0      | 0.00                           | 0.00               | 0                | 0.00       |              |         |         |  |
| Ret. Fan Heat                | 0.00      | 0            | 0      | 0                                | 0      | 0        | 0      | 0.00                           | 0.00               | 0                | 0.00       |              |         |         |  |
| Duct Heat PkUp               | 0.00      | 0            | 0      | 0                                | 0      | 0        | 0      | 0.00                           | 0.00               | 0                | 0.00       |              |         |         |  |
| Reheat at Design             | 0.00      | 0            | 0      | 0                                | 0      | 0        | 0      | 0.00                           | 0.00               | 0                | 0.00       |              |         |         |  |
| Grand Total ==>              | 0.00      | 0.00         | 100.00 | 0.00                             | 100.00 | 0.00     | 100.00 | Grand Total ==>                | 0.00               | 100.00           | 0.00       |              |         |         |  |
| ENGINEERING CKS              |           |              |        | ENGINEERING CKS                  |        |          |        |                                |                    |                  |            |              |         |         |  |
| % OA                         |           |              |        |                                  |        |          |        | % OA                           |                    |                  |            |              |         |         |  |
| Lps/m²                       |           |              |        |                                  |        |          |        | Lps/m²                         |                    |                  |            |              |         |         |  |
| Lps/kW                       |           |              |        |                                  |        |          |        | Lps/kW                         |                    |                  |            |              |         |         |  |
| m²/kW                        |           |              |        |                                  |        |          |        | m²/kW                          |                    |                  |            |              |         |         |  |
| W/m²                         |           |              |        |                                  |        |          |        | W/m²                           |                    |                  |            |              |         |         |  |
| No. People                   |           |              |        |                                  |        |          |        | No. People                     |                    |                  |            |              |         |         |  |
|                              |           |              |        |                                  |        |          |        |                                |                    |                  |            |              |         |         |  |
| HEATING COIL SELECTION       |           |              |        | HEATING COIL SELECTION           |        |          |        |                                |                    |                  |            |              |         |         |  |
| Total Capacity               | Sens Cap. | Coil Airflow | Enter  | DB/WB/HR                         | Leave  | DB/WB/HR | Enter  | Capacity                       | Coil Airflow       | Ent              | Lvg        |              |         |         |  |
| kW                           | kW        | L/s          | °C     | °C                               | g/kg   | °C       | g/kg   | kW                             | L/s                | °C               | °C         |              |         |         |  |
| Main Clg                     | 0.00      | 0            | 24.2   | 14.7                             | 7.4    | 12.8     | 10.3   | Main Htg                       | 0.0                | 0                | 21.9       | 26.2         |         |         |  |
| Aux Clg                      | 0.00      | 0            | 0.0    | 0.0                              | 0.0    | 0.0      | 0.0    | Aux Htg                        | 0.0                | 0                | 0.0        | 0.0          |         |         |  |
| Opt Vent                     | 0.00      | 0            | 0.0    | 0.0                              | 0.0    | 0.0      | 0.0    | Preheat                        | 0.0                | 0                | 0.0        | 0.0          |         |         |  |
| Total                        | 0.00      |              |        |                                  |        |          |        | Humidif Opt Vent               | 0.0                | 0                | 0.0        | 0.0          |         |         |  |
|                              |           |              |        |                                  |        |          |        | Total                          | 0.0                | 0                | 0.0        | 0.0          |         |         |  |



## Room Checksums

By GOCSA

## FC0205 02 RECEPCION V 1/125

| COOLING COIL PEAK            |  |                    |  |           |  |                  |  |                |  | CLG SPACE PEAK         |  |                       |  | HEATING COIL PEAK              |  |                  |  | TEMPERATURES   |  |      |  |       |  |   |  |                    |  |
|------------------------------|--|--------------------|--|-----------|--|------------------|--|----------------|--|------------------------|--|-----------------------|--|--------------------------------|--|------------------|--|--|--|------|--|-------|--|---|--|--------------------|--|
| Peaked at Time: Outside Air: |  |                    |  |           |  |                  |  |                |  | Mo/Hr: 7 / 24 OADB: 21 |  |                       |  | Mo/Hr: Heating Design OADB: -5 |  |                  |  |  |  |      |  |       |  |   |  |                    |  |
| Space Sens. + Lat.           |  | Plenum Sens. + Lat |  | Net Total |  | Percent Of Total |  | Space Sensible |  | Percent Of Total       |  | Space Peak Space Sens |  | Coil Peak Tot Sens             |  | Percent Of Total |  | SADB Plenum Return Ret/OA Fn MtrTD Fn BidTD Fn Frict |  |      |  |       |  |   |  |                    |  |
| kW                           |  | kW                 |  | kW        |  | %                |  | kW             |  | %                      |  | kW                    |  | kW                             |  | %                |  | Cooling 14.2 24.2 24.2 0.0 0.0 0.0                   |  |      |  |       |  |   |  |                    |  |
| Envelope Loads               |  |                    |  |           |  |                  |  |                |  |                        |  |                       |  |                                |  |                  |  | Heating 25.2 21.9 21.9 0.0 0.0 0.0                   |  |      |  |       |  |   |  |                    |  |
| Skylite Solar                |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | 0.00                  |  | 0.00                           |  | 0                |  |  |  |      |  |       |  |   |  |                    |  |
| Skylite Cond                 |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | 0.00                  |  | 0.00                           |  | 0                |  |  |  |      |  |       |  |   |  |                    |  |
| Roof Cond                    |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | 0.00                  |  | 0.00                           |  | 0                |  |  |  |      |  |       |  |   |  |                    |  |
| Glass Solar                  |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | 0.00                  |  | 0.00                           |  | 0                |  |  |  |      |  |       |  |   |  |                    |  |
| Glass Cond                   |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | 0.00                  |  | 0.00                           |  | 0                |  |  |  |      |  |       |  |   |  |                    |  |
| Wall Cond                    |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | 0.00                  |  | 0.00                           |  | 0                |  |  |  |      |  |       |  |   |  |                    |  |
| Partition                    |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | 0.00                  |  | 0.00                           |  | 0                |  |  |  |      |  |       |  |   |  |                    |  |
| Exposed Floor                |  | -0.01              |  | -0.01     |  | -1               |  | -0.01          |  | -1                     |  | -0.42                 |  | -0.42                          |  | 0                |  | 0  |  |      |  |       |  |   |  |                    |  |
| Infiltration                 |  | 0.00               |  | 0.00      |  | 0                |  | 0.00           |  | 0                      |  | 0.00                  |  | 0.00                           |  | 0                |  | 0  |  |      |  |       |  |   |  |                    |  |
| Sub Total ==>                |  | -0.01              |  | -0.01     |  | -1               |  | -0.01          |  | -1                     |  | -0.42                 |  | -0.42                          |  | 0                |  | 115 115  |  |      |  |       |  |   |  |                    |  |
| Internal Loads               |  |                    |  |           |  |                  |  |                |  |                        |  |                       |  |                                |  |                  |  | 0  |  | 0    |  | 0     |  |   |  |                    |  |
| Lights                       |  | 0.20               |  | 0.25      |  | 16               |  | 0.20           |  | 16                     |  | 0.00                  |  | 0.00                           |  | 0                |  | 0  |  |      |  |       |  |   |  |                    |  |
| People                       |  | 0.53               |  | 0.53      |  | 34               |  | 0.29           |  | 22                     |  | 0.00                  |  | 0.00                           |  | 0                |  | 0  |  |      |  |       |  |   |  |                    |  |
| Misc                         |  | 0.80               |  | 0.80      |  | 51               |  | 0.80           |  | 62                     |  | 0.00                  |  | 0.00                           |  | 0                |  | 0  |  |      |  |       |  |   |  |                    |  |
| Sub Total ==>                |  | 1.53               |  | 1.58      |  | 101              |  | 1.29           |  | 100                    |  | 0.00                  |  | 0.00                           |  | 0                |  | 0  |  |      |  |       |  |   |  |                    |  |
| Ceiling Load                 |  |                    |  |           |  |                  |  |                |  |                        |  |                       |  |                                |  |                  |  | 0.00   |  | 0    |  | 0     |  |   |  |                    |  |
| Ventilation Load             |  |                    |  |           |  |                  |  |                |  |                        |  |                       |  |                                |  |                  |  | 0.00   |  | 0.00 |  | 0.00  |  | 0 |  | 0                  |  |
| Adj Air Trans Heat           |  |                    |  |           |  |                  |  |                |  |                        |  |                       |  |                                |  |                  |  | 0  |  | 0    |  | 0     |  | 0 |  | 0                  |  |
| Dehumid. Ov Sizing           |  |                    |  |           |  |                  |  |                |  |                        |  |                       |  |                                |  |                  |  | 0  |  | 0    |  | 0     |  | 0 |  | 0                  |  |
| Ov/Undr Sizing               |  |                    |  |           |  |                  |  |                |  |                        |  |                       |  |                                |  |                  |  | 0.00   |  | 0.00 |  | 0.00  |  | 0 |  | 5.16               |  |
| Exhaust Heat                 |  |                    |  |           |  |                  |  |                |  |                        |  |                       |  |                                |  |                  |  | 0.00   |  | 0    |  | 0.00  |  | 0 |  | 73.71              |  |
| Sup. Fan Heat                |  |                    |  |           |  |                  |  |                |  |                        |  |                       |  |                                |  |                  |  | 0.00   |  | 0    |  | 0.00  |  | 0 |  |                    |  |
| Ret. Fan Heat                |  |                    |  |           |  |                  |  |                |  |                        |  |                       |  |                                |  |                  |  | 0.00   |  | 0    |  | 0.00  |  | 0 |  |                    |  |
| Duct Heat PkUp               |  |                    |  |           |  |                  |  |                |  |                        |  |                       |  |                                |  |                  |  | 0.00   |  | 0    |  | 0.00  |  | 0 |  |                    |  |
| Reheat at Design             |  |                    |  |           |  |                  |  |                |  |                        |  |                       |  |                                |  |                  |  | 0.00   |  | 0    |  | -0.01 |  | 0 |  | 14.27 70.02 -19.39 |  |
| Grand Total ==>              |  | 1.53               |  | 0.04      |  | 100.00           |  | 1.29           |  | 100.00                 |  | -0.42                 |  | -0.43                          |  | 100.00           |  | 4  |  |      |  |       |  |   |  |                    |  |

| COOLING COIL SELECTION |  |           |  |              |  |               |  |               |  | AREAS                      |  | HEATING COIL SELECTION                          |  |          |  |              |  |         |  |
|------------------------|--|-----------|--|--------------|--|---------------|--|---------------|--|----------------------------|--|---|--|----------|--|--------------|--|---------|--|
| Total Capacity         |  | Sens Cap. |  | Coil Airflow |  | Enter DBWB/HR |  | Leave DBWB/HR |  | Gross Total                |  | Glass   |  | Capacity |  | Coil Airflow |  | Ent Lvg |  |
| kW                     |  | kW        |  | L/s          |  | °C            |  | °C            |  | m²                         |  | m²  |  | kW       |  | L/s          |  | °C      |  |
| 1.56                   |  | 1.32      |  | 115          |  | 24.2          |  | 16.9          |  | 22                         |  | 22  |  | -0.4     |  | 115          |  | 25.2    |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 118                        |  | 118   |  | 0.0      |  | 0            |  | 0.0     |  |
| 0.00                   |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 22                         |  | 22  |  | 0.0      |  | 0            |  | 0.0     |  |
| Main Clg               |  | 1.56      |  | 115          |  | 24.2          |  | 16.9          |  | 22                         |  | 22  |  | -0.4     |  | 115          |  | 25.2    |  |
| Aux Clg                |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 118                        |  | 118   |  | 0.0      |  | 0            |  | 0.0     |  |
| Opt Vent               |  | 0.00      |  | 0            |  | 0.0           |  | 0.0           |  | 22                         |  | 22  |  | 0.0      |  | 0            |  | 0.0     |  |
| Total                  |  | 1.56      |  | 0            |  | 0.0           |  | 0.0           |  | 0                          |  | 0   |  | 0.0      |  | 0            |  | 0.0     |  |
|                        |  |           |  |              |  |               |  |               |  | Floor Part ExFlr Roof Wall |  | Main Htg Aux Htg Preheat Humidif Opt Vent Total |  |          |  |              |  |         |  |



## Room Checksums

By GOCSA

FC0205 03 AREA DE TRABAJO V 1/125

| COOLING COIL PEAK            |  |                    |  |           |  |                |  |                  |  | CLG SPACE PEAK                         |  |                    |  | HEATING COIL PEAK      |  |  |  | TEMPERATURES                   |  |              |  |  |  |
|------------------------------|--|--------------------|--|-----------|--|----------------|--|------------------|--|--|--|--------------------|--|------------------------|--|--|--|--------------------------------|--|--------------|--|--|--|
| Peaked at Time: Outside Air: |  |                    |  |           |  |                |  |                  |  | Mo/Hr: 7 / 15 OADB/WB/HR: 36 / 22 / 11 |  |                    |  | Mo/Hr: 7 / 24 OADB: 21 |  |  |  | Mo/Hr: Heating Design OADB: -5 |  |              |  |  |  |
| Space Sens. + Lat.           |  | Plenum Sens. + Lat |  | Net Total |  | Space Sensible |  | Percent Of Total |  | Space Peak Space Sens                  |  | Coil Peak Tot Sens |  | Percent Of Total       |  | SADB Plenum Return Ret/OA Fn MtrTD Fn BidTD Fn Frict |  |                                |  |              |  |  |  |
| kW                           |  | kW                 |  | kW        |  | kW             |  | %                |  | kW                                     |  | kW                 |  | %                      |  | Cooling Heating                                      |  |                                |  |              |  |  |  |
| Envelope Loads               |  |                    |  |           |  |                |  |                  |  | Envelope Loads                         |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Skylite Solar                |  |                    |  |           |  |                |  |                  |  | Skylite Solar                          |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Skylite Cond                 |  |                    |  |           |  |                |  |                  |  | Skylite Cond                           |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Roof Cond                    |  |                    |  |           |  |                |  |                  |  | Roof Cond                              |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Glass Solar                  |  |                    |  |           |  |                |  |                  |  | Glass Solar                            |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Glass Cond                   |  |                    |  |           |  |                |  |                  |  | Glass Cond                             |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Wall Cond                    |  |                    |  |           |  |                |  |                  |  | Wall Cond                              |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Partition                    |  |                    |  |           |  |                |  |                  |  | Partition                              |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Exposed Floor                |  |                    |  |           |  |                |  |                  |  | Exposed Floor                          |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Infiltration                 |  |                    |  |           |  |                |  |                  |  | Infiltration                           |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Sub Total ==>                |  |                    |  |           |  |                |  |                  |  | Sub Total ==>                          |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Internal Loads               |  |                    |  |           |  |                |  |                  |  | Internal Loads                         |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Lights                       |  |                    |  |           |  |                |  |                  |  | Lights                                 |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| People                       |  |                    |  |           |  |                |  |                  |  | People                                 |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Misc                         |  |                    |  |           |  |                |  |                  |  | Misc                                   |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Sub Total ==>                |  |                    |  |           |  |                |  |                  |  | Sub Total ==>                          |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Ceiling Load                 |  |                    |  |           |  |                |  |                  |  | Ceiling Load                           |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Ventilation Load             |  |                    |  |           |  |                |  |                  |  | Ventilation Load                       |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Adj Air Trans Heat           |  |                    |  |           |  |                |  |                  |  | Adj Air Trans Heat                     |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Dehumid. Ov Sizing           |  |                    |  |           |  |                |  |                  |  | Ov/Undr Sizing                         |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Ov/Undr Sizing               |  |                    |  |           |  |                |  |                  |  | Exhaust Heat                           |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Exhaust Heat                 |  |                    |  |           |  |                |  |                  |  | OA Preheat Diff.                       |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Sup. Fan Heat                |  |                    |  |           |  |                |  |                  |  | RA Preheat Diff.                       |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Ret. Fan Heat                |  |                    |  |           |  |                |  |                  |  | Additional Reheat                      |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Duct Heat PkUp               |  |                    |  |           |  |                |  |                  |  | System Plenum Heat                     |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Reheat at Design             |  |                    |  |           |  |                |  |                  |  |  |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |
| Grand Total ==>              |  |                    |  |           |  |                |  |                  |  | Grand Total ==>                        |  |                    |  |                        |  |  |  |                                |  | No. People 2 |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.95                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  | 0.98                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.98                         |  |                    |  |           |  |                |  |                  |  | 0.84                                   |  |                    |  |                        |  |  |  |                                |  | 100.00       |  |  |  |
| 0.03                         |  |                    |  |           |  |                |  |                  |  |  |  |                    |  |                        |  |  |  |                                |  |              |  |  |  |



| COOLING COIL SELECTION |                      |                 |                     |             |                     |                           |
|------------------------|----------------------|-----------------|---------------------|-------------|---------------------|---------------------------|
|                        | Total Capacity<br>kW | Sens Cap.<br>kW | Coil Airflow<br>L/s | Enter DB/°C | DB/WB/HR<br>°C g/kg | Leave DB/WB/HR<br>°C g/kg |
| Main Clg               | 0.00                 | 0.00            | 0                   | 24.2        | 14.7 7.4            | 12.8 10.3 7.4             |
| Aux Clg                | 0.00                 | 0.00            | 0                   | 0.0         | 0.0 0.0             | 0.0 0.0 0.0               |
| Opt Vent               | 0.00                 | 0.00            | 0                   | 0.0         | 0.0 0.0             | 0.0 0.0 0.0               |
| <b>Total</b>           | 0.00                 |                 |                     |             |                     |                           |

| HEATING COIL SELECTION |                |                     |           |
|------------------------|----------------|---------------------|-----------|
|                        | Capacity<br>kW | Coil Airflow<br>L/s | Ent<br>°C |
| Main Htg               | 0.0            | 0                   | 21.9      |
| Aux Htg                | 0.0            | 0                   | 0.0       |
| Preheat                | 0.0            | 0                   | 0.0       |
| Humidif                | 0.0            | 0                   | 0.0       |
| Opt Vent               | 0.0            | 0                   | 0.0       |
| <i>Total</i>           | 0.0            |                     |           |







Room Checksums

By GOCSA

FC0205 05 PASILLO V 2/1

| COOLING COIL PEAK                    |  |       |             | CLG SPACE PEAK |          |          |          | HEATING COIL PEAK     |           |          |        | TEMPERATURES |  |        |  |
|--------------------------------------|--|-------|-------------|----------------|----------|----------|----------|-----------------------|-----------|----------|--------|--------------|--|--------|--|
| Peaked at Time: Mo/Hr: 7 / 15        |  |       |             | Mo/Hr: 7 / 24  |          |          |          | Mo/Hr: Heating Design |           |          |        |              |  |        |  |
| Outside Air: OADBWB/HR: 36 / 22 / 11 |  |       |             | OADB: 21       |          |          |          | OADB: -5              |           |          |        |              |  |        |  |
| Sens. + Lat.                         |  | Space | Plenum      | Net            | Percent  | Space    | Percent  | Space Peak            | Coil Peak | Percent  | SADB   |              |  |        |  |
| Sens. + Lat.                         |  | kW    | Sens. + Lat | Total          | Of Total | Sensible | Of Total | Space Sens            | Tot Sens  | Of Total | Plenum |              |  |        |  |
|                                      |  | kW    | kW          | kW             | (%)      | kW       | (%)      | kW                    | kW        | (%)      | Return |              |  |        |  |
| Envelope Loads                       |  |       |             |                |          |          |          |                       |           |          |        | Ret/OA       |  | 24.2   |  |
| Skylite Solar                        |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.0    |  |
| Skylite Cond                         |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Roof Cond                            |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Glass Solar                          |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Glass Cond                           |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Wall Cond                            |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Partition                            |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Exposed Floor                        |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Infiltration                         |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Sub Total ==>                        |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Internal Loads                       |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Lights                               |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| People                               |  |       |             |                |          |          |          |                       |           |          |        | 4.88         |  | 2.66   |  |
| Misc                                 |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Sub Total ==>                        |  |       |             |                |          |          |          |                       |           |          |        | 4.88         |  | 2.66   |  |
| Ceiling Load                         |  |       |             |                |          |          |          |                       |           |          |        | -0.02        |  | 0.00   |  |
| Ventilation Load                     |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Adj Air Trans Heat                   |  |       |             |                |          |          |          |                       |           |          |        | 0            |  | 0      |  |
| Dehumid. Ov Sizing                   |  |       |             |                |          |          |          |                       |           |          |        | 0            |  | 0      |  |
| Ov/Undr Sizing                       |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Exhaust Heat                         |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Sup. Fan Heat                        |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Ret. Fan Heat                        |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Duct Heat PkUp                       |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | 0.00   |  |
| Reheat at Design                     |  |       |             |                |          |          |          |                       |           |          |        | 0.00         |  | -0.03  |  |
| Grand Total ==>                      |  |       |             |                |          |          |          |                       |           |          |        | 4.90         |  | -0.02  |  |
|                                      |  |       |             |                |          |          |          |                       |           |          |        | 2.68         |  | 100.00 |  |
|                                      |  |       |             |                |          |          |          |                       |           |          |        | -0.01        |  | -0.03  |  |
|                                      |  |       |             |                |          |          |          |                       |           |          |        |              |  | 100.00 |  |

| AIRFLOWS |  |  |  | TEMPERATURES |  |  |  |
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Room Checksums

By GOCSA

FC0205 07 ADMINISTRACION V 1/125

| COOLING COIL PEAK  |  |                     |  |           |                        |                |                  |            |  | CLG SPACE PEAK     |                  |        |  |        |                       |          |          |            |  | HEATING COIL PEAK |  |         |  |            |         |         |         |         |  | TEMPERATURES |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
|--------------------|--|---------------------|--|-----------|------------------------|----------------|------------------|------------|--|--------------------|------------------|--------|--|--------|-----------------------|----------|----------|------------|--|-------------------|--|---------|--|------------|---------|---------|---------|---------|--|--------------|--|-------|--|----|--|----|--|----|--|----|--|----|--|----|--|
| Peaked at Time:    |  |                     |  |           | Mo/Hr: 7 / 19          |                |                  |            |  | Mo/Hr: 7 / 19      |                  |        |  |        | Mo/Hr: Heating Design |          |          |            |  | SADB              |  |         |  |            | Cooling |         | Heating |         |  |              |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Outside Air:       |  |                     |  |           | OADBWB/HR: 30 / 17 / 8 |                |                  |            |  | OADB: 30           |                  |        |  |        | OADB: -5              |          |          |            |  | Plenum            |  |         |  |            | 24.2    |         | 23.3    |         |  |              |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Space Sens. + Lat. |  | Plenum Sens. + Lat. |  | Net Total | Percent Of Total       | Space Sensible | Percent Of Total | Space Peak |  | Coil Peak Tot Sens | Percent Of Total | Return |  | Ret/OA | Fn MtrTD              | Fn BidTD | Fn Frict | AIRFLOWS   |  |                   |  |         |  |            |         |         |         |         |  |              |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| kW                 |  | kW                  |  |           |                        |                |                  | kW         |  |                    |                  | kW     |  |        |                       |          |          | kW         |  | kW                |  | kW      |  | kW         |         | Cooling |         | Heating |  |              |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Envelope Loads     |  |                     |  |           |                        |                |                  |            |  |                    |                  |        |  |        |                       |          |          | Vent       |  | Infil             |  | Supply  |  | MinStop/Rh |         | Return  |         | Exhaust |  | Rm Exh       |  | Auxil |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Skylite Solar      |  | 0.00                |  | 0.00      |                        | 0.00           |                  | 0.00       |  | 0.00               |                  | 0.00   |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Skylite Cond       |  | 0.00                |  | 0.00      |                        | 0.00           |                  | 0.00       |  | 0.00               |                  | 0.00   |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Roof Cond          |  | 0.00                |  | 0.00      |                        | 0.00           |                  | 0.00       |  | 0.00               |                  | 0.00   |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Glass Solar        |  | 3.71                |  | 3.71      |                        | 3.71           |                  | 23         |  | 3.71               |                  | 23     |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Glass Cond         |  | 0.38                |  | 0.38      |                        | 0.38           |                  | 2          |  | 0.38               |                  | 2      |  | -1.23  |                       | -1.23    |          | -1.23      |  | 50                |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Wall Cond          |  | 0.12                |  | 0.16      |                        | 0.12           |                  | 1          |  | 0.12               |                  | 1      |  | -0.62  |                       | -0.62    |          | -0.62      |  | 35                |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Partition          |  | 0.00                |  | 0.00      |                        | 0.00           |                  | 0          |  | 0.00               |                  | 0      |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Exposed Floor      |  | 0.00                |  | 0.00      |                        | 0.00           |                  | 0          |  | 0.00               |                  | 0      |  | -0.42  |                       | -0.42    |          | -0.42      |  | 17                |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Infiltration       |  | 0.00                |  | 0.00      |                        | 0.00           |                  | 0          |  | 0.00               |                  | 0      |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Sub Total ==>      |  | 4.21                |  | 4.25      |                        | 4.21           |                  | 26         |  | 4.21               |                  | 26     |  | -2.27  |                       | -2.50    |          | -2.50      |  | 102               |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Internal Loads     |  |                     |  |           |                        |                |                  |            |  |                    |                  |        |  |        |                       |          |          | MinStop/Rh |  | Return            |  | Exhaust |  | Rm Exh     |         | Auxil   |         |         |  |              |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Lights             |  | 1.89                |  | 2.36      |                        | 1.89           |                  | 12         |  | 1.89               |                  | 12     |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| People             |  | 4.75                |  | 4.75      |                        | 2.64           |                  | 26         |  | 2.64               |                  | 26     |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Misc               |  | 7.20                |  | 7.20      |                        | 7.20           |                  | 45         |  | 7.20               |                  | 45     |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Sub Total ==>      |  | 13.84               |  | 14.31     |                        | 11.73          |                  | 73         |  | 11.73              |                  | 73     |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Ceiling Load       |  |                     |  |           |                        |                |                  |            |  |                    |                  |        |  |        |                       |          |          | MinStop/Rh |  | Return            |  | Exhaust |  | Rm Exh     |         | Auxil   |         |         |  |              |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Ventilation Load   |  | 0.08                |  | 0.00      |                        | 0.08           |                  | 0          |  | 0.08               |                  | 0      |  | -0.03  |                       | -0.03    |          | -0.03      |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Adj Air Trans Heat |  | 0                   |  | 0.00      |                        | 0              |                  | 0          |  | 0                  |                  | 0      |  | 0      |                       | 0        |          | 0          |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Dehumid. Ov Sizing |  | 0.00                |  | 0.00      |                        | 0.00           |                  | 0          |  | 0.00               |                  | 0      |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Ov/Undr Sizing     |  | 0.00                |  | 0.00      |                        | 0.00           |                  | 0          |  | 0.00               |                  | 0      |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Exhaust Heat       |  | 0.00                |  | 0.00      |                        | 0.00           |                  | 0          |  | 0.00               |                  | 0      |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Sup. Fan Heat      |  | 0.00                |  | 0.00      |                        | 0.00           |                  | 0          |  | 0.00               |                  | 0      |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Ret. Fan Heat      |  | 0.00                |  | 0.00      |                        | 0.00           |                  | 0          |  | 0.00               |                  | 0      |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Duct Heat Pkup     |  | 0.00                |  | 0.00      |                        | 0.00           |                  | 0          |  | 0.00               |                  | 0      |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Reheat at Design   |  | 0.00                |  | 0.00      |                        | 0.00           |                  | 0          |  | 0.00               |                  | 0      |  | 0.00   |                       | 0.00     |          | 0.00       |  | 0                 |  | 1,554   |  | 1,554      |         | 0       |         | 0       |  | 0            |  |       |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Grand Total ==>    |  |                     |  |           |                        |                |                  |            |  |                    |                  |        |  |        |                       |          |          | No. People |  | 36                |  | 36      |  | 36         |         | 36      |         | 36      |  | 36           |  | 36    |  | 36 |  | 36 |  | 36 |  | 36 |  | 36 |  | 36 |  |



Room Checksums

By GOCSA

FC0205 21 ASEO EX 4/25

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK     |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |           |  |  |  |  | TEMPERATURES |  |  |  |  |   |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|-----------|--|--|--|--|--------------|--|--|--|--|---|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 24      |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB              |  |  |  |  | Cooling   |  |  |  |  | Heating      |  |  |  |  |   |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 21           |  |  |  |  | OADB: -5              |  |  |  |  | Plenum            |  |  |  |  | 12.8      |  |  |  |  | 26.2         |  |  |  |  |   |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net                |  |  |  |  | Space Sensible        |  |  |  |  | Space Peak        |  |  |  |  | Coil Peak |  |  |  |  | Percent      |  |  |  |  |   |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | Total              |  |  |  |  | Sens. + Lat.          |  |  |  |  | Space Sens        |  |  |  |  | Tot Sens  |  |  |  |  | Of Total     |  |  |  |  |   |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                |  |  |  |  | kW        |  |  |  |  | %            |  |  |  |  |   |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  | Envelope Loads     |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
| Skylite Solar      |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0            |  |  |  |  |   |  |  |  |  |
| Skylite Cond       |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Roof Cond          |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Glass Solar        |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Glass Cond         |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Wall Cond          |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Partition          |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Exposed Floor      |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Infiltration       |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  | Internal Loads     |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
| Lights             |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| People             |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Misc               |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  | Ceiling Load       |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
| Ventilation Load   |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  | 0                       |  |  |  |  | 0                  |  |  |  |  | 0                     |  |  |  |  | 0                 |  |  |  |  | 0         |  |  |  |  | 0            |  |  |  |  | 0 |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Exhaust Heat       |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Duct Heat PkUp     |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Reheat at Design   |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                         |  |  |  |  | Grand Total ==>    |  |  |  |  |                       |  |  |  |  | Grand Total ==>   |  |  |  |  |           |  |  |  |  | No. People   |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0.00         |  |  |  |  | 0 |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |
|                    |  |  |  |  |                         |  |  |  |  |                    |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |   |  |  |  |  |



Room Checksums

By GOCSA

FC0205 22 ASEO EX 4/25

| COOLING COIL PEAK |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK    |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |              |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|-------------------|--|--|--|--|-------------------------|--|--|--|--|-------------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|--------------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:   |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 24     |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | Cooling           |  |  |  |  | Heating      |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Outside Air:      |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 21          |  |  |  |  | OADB: -5              |  |  |  |  | SADB              |  |  |  |  | 26.2         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  |                         |  |  |  |  |                   |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |              |  |  |  |  |              |  |  |  |  |  |  |  |  |  |



Room Checksums

By GOCSA

FC0209 01 VESTUARIO PACIENTES V 5/13

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK     |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |           |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------|--|--|--|--|-----------------------|--|--|--|--|--------------------|--|--|--|--|-----------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 2       |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB               |  |  |  |  | Cooling   |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 19           |  |  |  |  | OADB: -5              |  |  |  |  | Plenum             |  |  |  |  | 24.4      |  |  |  |  | 22.3         |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net                |  |  |  |  | Space                 |  |  |  |  | Space Peak         |  |  |  |  | Coil Peak |  |  |  |  | Percent      |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | Total              |  |  |  |  | Sensible              |  |  |  |  | Space Sens         |  |  |  |  | Tot Sens  |  |  |  |  | Of Total     |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                 |  |  |  |  | kW        |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  | Envelope Loads     |  |  |  |  |                       |  |  |  |  | Envelope Loads     |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  |                         |  |  |  |  | Skylite Solar      |  |  |  |  |                       |  |  |  |  | Skylite Solar      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  |                         |  |  |  |  | Skylite Cond       |  |  |  |  |                       |  |  |  |  | Skylite Cond       |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  |                         |  |  |  |  | Roof Cond          |  |  |  |  |                       |  |  |  |  | Roof Cond          |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  |                         |  |  |  |  | Glass Solar        |  |  |  |  |                       |  |  |  |  | Glass Solar        |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  |                         |  |  |  |  | Glass Cond         |  |  |  |  |                       |  |  |  |  | Glass Cond         |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  |                         |  |  |  |  | Wall Cond          |  |  |  |  |                       |  |  |  |  | Wall Cond          |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  |                         |  |  |  |  | Partition          |  |  |  |  |                       |  |  |  |  | Partition          |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  |                         |  |  |  |  | Exposed Floor      |  |  |  |  |                       |  |  |  |  | Exposed Floor      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  |                         |  |  |  |  | Infiltration       |  |  |  |  |                       |  |  |  |  | Infiltration       |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  | Internal Loads     |  |  |  |  |                       |  |  |  |  | Internal Loads     |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  |                         |  |  |  |  | Lights             |  |  |  |  |                       |  |  |  |  | Lights             |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  |                         |  |  |  |  | People             |  |  |  |  |                       |  |  |  |  | People             |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  |                         |  |  |  |  | Misc               |  |  |  |  |                       |  |  |  |  | Misc               |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | Sub Total ==>      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  | Ceiling Load       |  |  |  |  |                       |  |  |  |  | Ceiling Load       |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  |                         |  |  |  |  | Ventilation Load   |  |  |  |  |                       |  |  |  |  | Ventilation Load   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  |                         |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                       |  |  |  |  | Adj Air Trans Heat |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                       |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  |                         |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |                       |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  |                         |  |  |  |  | Exhaust Heat       |  |  |  |  |                       |  |  |  |  | Exhaust Heat       |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  |                         |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                       |  |  |  |  | Sup. Fan Heat      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  |                         |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                       |  |  |  |  | Ret. Fan Heat      |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  |                         |  |  |  |  | Duct Heat Pkup     |  |  |  |  |                       |  |  |  |  | Duct Heat Pkup     |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  |                         |  |  |  |  | Reheat at Design   |  |  |  |  |                       |  |  |  |  | Reheat at Design   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                         |  |  |  |  | Grand Total ==>    |  |  |  |  |                       |  |  |  |  | Grand Total ==>    |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 0.40               |  |  |  |  |                         |  |  |  |  | 0.42               |  |  |  |  |                       |  |  |  |  | -0.01              |  |  |  |  |           |  |  |  |  | 2            |  |  |  |  |  |  |  |  |  |
| -0.01              |  |  |  |  |                         |  |  |  |  | 0.01               |  |  |  |  |                       |  |  |  |  | -0.01              |  |  |  |  |           |  |  |  |  | -0.01        |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0                  |  |  |  |  |                         |  |  |  |  | 0                  |  |  |  |  |                       |  |  |  |  | 0                  |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  |
| 0.00               |  |  |  |  |                         |  |  |  |  | 0.00               |  |  |  |  |                       |  |  |  |  | 0.00               |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |



Room Checksums

By GOCSA

FC0209 02 VESTUARIO PACIENTES V 5/13

| COOLING COIL PEAK            |  |                    |  | CLG SPACE PEAK                        |  |                  |  | HEATING COIL PEAK              |  |                  |  | TEMPERATURES   |  |                    |  |                  |  |  |  |
|------------------------------|--|--------------------|--|---------------------------------------|--|------------------|--|--------------------------------|--|------------------|--|--|--|--------------------|--|------------------|--|--|--|
| Peaked at Time: Outside Air: |  |                    |  | Mo/Hr: 7 / 15 OADBWB/HR: 36 / 22 / 11 |  |                  |  | Mo/Hr: Heating Design OADB: -5 |  |                  |  | SADB<br>Plenum<br>Return<br>Ret/OA<br>Fn MtrTD<br>Fn BidTD<br>Fn Frict |  |                    |  |                  |  |  |  |
| Space Sens. + Lat.           |  | Plenum Sens. + Lat |  | Net Total                             |  | Percent Of Total |  | Space Sensible                 |  | Percent Of Total |  | Space Peak Space Sens  |  | Coil Peak Tot Sens |  | Percent Of Total |  |  |  |
| kW                           |  | kW                 |  | kW                                    |  | %                |  | kW                             |  | %                |  | kW   |  | kW                 |  | %                |  |  |  |
| Envelope Loads               |  |                    |  | Envelope Loads                        |  |                  |  | Envelope Loads                 |  |                  |  | Envelope Loads   |  |                    |  | Envelope Loads   |  |  |  |
| Skylite Solar                |  |                    |  | Skylite Solar                         |  |                  |  | Skylite Solar                  |  |                  |  | Skylite Solar  |  |                    |  | Skylite Solar    |  |  |  |
| 0.00                         |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Skylite Cond                 |  |                    |  | Skylite Cond                          |  |                  |  | Skylite Cond                   |  |                  |  | Skylite Cond   |  |                    |  | Skylite Cond     |  |  |  |
| 0.00                         |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Roof Cond                    |  |                    |  | Roof Cond                             |  |                  |  | Roof Cond                      |  |                  |  | Roof Cond  |  |                    |  | Roof Cond        |  |  |  |
| 0.00                         |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Glass Solar                  |  |                    |  | Glass Solar                           |  |                  |  | Glass Solar                    |  |                  |  | Glass Solar  |  |                    |  | Glass Solar      |  |  |  |
| 0.00                         |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Glass Cond                   |  |                    |  | Glass Cond                            |  |                  |  | Glass Cond                     |  |                  |  | Glass Cond   |  |                    |  | Glass Cond       |  |  |  |
| 0.00                         |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Wall Cond                    |  |                    |  | Wall Cond                             |  |                  |  | Wall Cond                      |  |                  |  | Wall Cond  |  |                    |  | Wall Cond        |  |  |  |
| 0.00                         |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Partition                    |  |                    |  | Partition                             |  |                  |  | Partition                      |  |                  |  | Partition  |  |                    |  | Partition        |  |  |  |
| 0.00                         |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Exposed Floor                |  |                    |  | Exposed Floor                         |  |                  |  | Exposed Floor                  |  |                  |  | Exposed Floor  |  |                    |  | Exposed Floor    |  |  |  |
| 0.00                         |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Infiltration                 |  |                    |  | Infiltration                          |  |                  |  | Infiltration                   |  |                  |  | Infiltration   |  |                    |  | Infiltration     |  |  |  |
| 0.00                         |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Sub Total ==>                |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Internal Loads               |  |                    |  | Internal Loads                        |  |                  |  | Internal Loads                 |  |                  |  | Internal Loads   |  |                    |  | Internal Loads   |  |  |  |
| Lights                       |  |                    |  | 0.13                                  |  |                  |  | 0.16                           |  |                  |  | 0.13   |  |                    |  | 0.16             |  |  |  |
| People                       |  |                    |  | 0.26                                  |  |                  |  | 0.26                           |  |                  |  | 0.15   |  |                    |  | 0.15             |  |  |  |
| Misc                         |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Sub Total ==>                |  |                    |  | 0.39                                  |  |                  |  | 0.42                           |  |                  |  | 0.28   |  |                    |  | 0.28             |  |  |  |
| Ceiling Load                 |  |                    |  | 0.01                                  |  |                  |  | -0.01                          |  |                  |  | 0.01   |  |                    |  | -0.01            |  |  |  |
| Ventilation Load             |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Adj Air Trans Heat           |  |                    |  | 0                                     |  |                  |  | 0                              |  |                  |  | 0  |  |                    |  | 0                |  |  |  |
| Dehumid. Ov Sizing           |  |                    |  | 0.00                                  |  |                  |  | 0                              |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Ov/Undr Sizing               |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Exhaust Heat                 |  |                    |  | 0.00                                  |  |                  |  | 0                              |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Sup. Fan Heat                |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Ret. Fan Heat                |  |                    |  | 0.00                                  |  |                  |  | 0                              |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Duct Heat Pkup               |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | 0.00   |  |                    |  | 0.00             |  |  |  |
| Reheat at Design             |  |                    |  | 0.00                                  |  |                  |  | 0.00                           |  |                  |  | -0.01  |  |                    |  | -0.01            |  |  |  |
| Grand Total ==>              |  |                    |  | 0.40                                  |  |                  |  | 0.42                           |  |                  |  | 0.29   |  |                    |  | -0.01            |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  | 100.00           |  |  |  |
|                              |  |                    |  |                                       |  |                  |  |                                |  |                  |  |  |  |                    |  |                  |  |  |  |



Room Checksums

By GOCSA

FC0209 03 VESTIBULO PREVIO V 2/1

| COOLING COIL PEAK  |  |       |  |        |                         |     |  |          |  | CLG SPACE PEAK     |  |          |  |            |                       |           |  |          |  | HEATING COIL PEAK   |  |                                |  |      |         |  |  |  |  | TEMPERATURES |  |       |  |  |  |  |  |  |  |
|--------------------|--|-------|--|--------|-------------------------|-----|--|----------|--|--------------------|--|----------|--|------------|-----------------------|-----------|--|----------|--|---|--|--------------------------------|--|------|---------|--|--|--|--|--------------|--|-------|--|--|--|--|--|--|--|
| Peaked at Time:    |  |       |  |        | Mo/Hr: 7 / 15           |     |  |          |  | Mo/Hr: 7 / 2       |  |          |  |            | Mo/Hr: Heating Design |           |  |          |  | SADB  |  |                                |  |      | Cooling |  |  |  |  | Heating      |  |       |  |  |  |  |  |  |  |
| Outside Air:       |  |       |  |        | OADBWB/HR: 36 / 22 / 11 |     |  |          |  | OADB: 19           |  |          |  |            | OADB: -5              |           |  |          |  | Plenum  |  |                                |  |      | 24.4    |  |  |  |  | 21.8         |  |       |  |  |  |  |  |  |  |
| Sens. + Lat.       |  | Space |  | Plenum |                         | Net |  | Percent  |  | Space              |  | Percent  |  | Space Peak |                       | Coil Peak |  | Percent  |  | Return <th colspan="2">24.4<th colspan="2">21.8</th></th> |  | 24.4 <th colspan="2">21.8</th> |  | 21.8 |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| kW                 |  | kW    |  | kW     |                         | kW  |  | Of Total |  | Sensible           |  | Of Total |  | Space Sens |                       | Tot Sens  |  | Of Total |  | Ret/OA <th colspan="2">24.4<th colspan="2">21.8</th></th> |  | 24.4 <th colspan="2">21.8</th> |  | 21.8 |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Envelope Loads     |  |       |  |        |                         |     |  |          |  | Envelope Loads     |  |          |  |            |                       |           |  |          |  | Fn MtrTD  |  |                                |  |      |         |  |  |  |  | 0.0          |  | 0.0   |  |  |  |  |  |  |  |
| Skylite Solar      |  |       |  |        |                         |     |  |          |  | Skylite Solar      |  |          |  |            |                       |           |  |          |  | Fn BidTD  |  |                                |  |      |         |  |  |  |  | 0.0          |  | 0.0   |  |  |  |  |  |  |  |
| Skylite Cond       |  |       |  |        |                         |     |  |          |  | Skylite Cond       |  |          |  |            |                       |           |  |          |  | Fn Frict  |  |                                |  |      |         |  |  |  |  | 0.0          |  | 0.0   |  |  |  |  |  |  |  |
| Roof Cond          |  |       |  |        |                         |     |  |          |  | Roof Cond          |  |          |  |            |                       |           |  |          |  |   |  |                                |  |      |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Glass Solar        |  |       |  |        |                         |     |  |          |  | Glass Solar        |  |          |  |            |                       |           |  |          |  |   |  |                                |  |      |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Glass Cond         |  |       |  |        |                         |     |  |          |  | Glass Cond         |  |          |  |            |                       |           |  |          |  |   |  |                                |  |      |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Wall Cond          |  |       |  |        |                         |     |  |          |  | Wall Cond          |  |          |  |            |                       |           |  |          |  |   |  |                                |  |      |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Partition          |  |       |  |        |                         |     |  |          |  | Partition          |  |          |  |            |                       |           |  |          |  |   |  |                                |  |      |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Exposed Floor      |  |       |  |        |                         |     |  |          |  | Exposed Floor      |  |          |  |            |                       |           |  |          |  |   |  |                                |  |      |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Infiltration       |  |       |  |        |                         |     |  |          |  | Infiltration       |  |          |  |            |                       |           |  |          |  |   |  |                                |  |      |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Sub Total ==>      |  |       |  |        |                         |     |  |          |  | Sub Total ==>      |  |          |  |            |                       |           |  |          |  |   |  |                                |  |      |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Internal Loads     |  |       |  |        |                         |     |  |          |  | Internal Loads     |  |          |  |            |                       |           |  |          |  | Vent  |  |                                |  |      |         |  |  |  |  | 0            |  | 0     |  |  |  |  |  |  |  |
| Lights             |  |       |  |        |                         |     |  |          |  | Lights             |  |          |  |            |                       |           |  |          |  | Infil   |  |                                |  |      |         |  |  |  |  | 0            |  | 0     |  |  |  |  |  |  |  |
| People             |  |       |  |        |                         |     |  |          |  | People             |  |          |  |            |                       |           |  |          |  | Supply  |  |                                |  |      |         |  |  |  |  | 14           |  | 14    |  |  |  |  |  |  |  |
| Misc               |  |       |  |        |                         |     |  |          |  | Misc               |  |          |  |            |                       |           |  |          |  | MinStop/Rh  |  |                                |  |      |         |  |  |  |  | 0            |  | 0     |  |  |  |  |  |  |  |
| Sub Total ==>      |  |       |  |        |                         |     |  |          |  | Sub Total ==>      |  |          |  |            |                       |           |  |          |  | Return  |  |                                |  |      |         |  |  |  |  | 14           |  | 14    |  |  |  |  |  |  |  |
|                    |  |       |  |        |                         |     |  |          |  |                    |  |          |  |            |                       |           |  |          |  | Exhaust   |  |                                |  |      |         |  |  |  |  | 0            |  | 0     |  |  |  |  |  |  |  |
|                    |  |       |  |        |                         |     |  |          |  |                    |  |          |  |            |                       |           |  |          |  | Rm Exh  |  |                                |  |      |         |  |  |  |  | 0            |  | 0     |  |  |  |  |  |  |  |
|                    |  |       |  |        |                         |     |  |          |  |                    |  |          |  |            |                       |           |  |          |  | Auxil   |  |                                |  |      |         |  |  |  |  | 0            |  | 0     |  |  |  |  |  |  |  |
| Ceiling Load       |  |       |  |        |                         |     |  |          |  | Ceiling Load       |  |          |  |            |                       |           |  |          |  | % OA  |  |                                |  |      |         |  |  |  |  | 0.0          |  | 0.0   |  |  |  |  |  |  |  |
| Ventilation Load   |  |       |  |        |                         |     |  |          |  | Ventilation Load   |  |          |  |            |                       |           |  |          |  | Lps/m²  |  |                                |  |      |         |  |  |  |  | 0.88         |  | 0.88  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |       |  |        |                         |     |  |          |  | Adj Air Trans Heat |  |          |  |            |                       |           |  |          |  | Lps/kW  |  |                                |  |      |         |  |  |  |  | 37.78        |  | 37.78 |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |       |  |        |                         |     |  |          |  | Dehumid. Ov Sizing |  |          |  |            |                       |           |  |          |  | m²/kW   |  |                                |  |      |         |  |  |  |  | 42.95        |  | 42.95 |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |       |  |        |                         |     |  |          |  | Ov/Undr Sizing     |  |          |  |            |                       |           |  |          |  | W/m²  |  |                                |  |      |         |  |  |  |  | 23.27        |  | -0.70 |  |  |  |  |  |  |  |
| Exhaust Heat       |  |       |  |        |                         |     |  |          |  | Exhaust Heat       |  |          |  |            |                       |           |  |          |  |   |  |                                |  |      |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |       |  |        |                         |     |  |          |  | Sup. Fan Heat      |  |          |  |            |                       |           |  |          |  |   |  |                                |  |      |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |       |  |        |                         |     |  |          |  | Ret. Fan Heat      |  |          |  |            |                       |           |  |          |  |   |  |                                |  |      |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |       |  |        |                         |     |  |          |  | Duct Heat Pkup     |  |          |  |            |                       |           |  |          |  |   |  |                                |  |      |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Reheat at Design   |  |       |  |        |                         |     |  |          |  | Reheat at Design   |  |          |  |            |                       |           |  |          |  |   |  |                                |  |      |         |  |  |  |  |              |  |       |  |  |  |  |  |  |  |
| Grand Total ==>    |  |       |  |        |                         |     |  |          |  | Grand Total ==>    |  |          |  |            |                       |           |  |          |  | No. People  |  |                                |  |      |         |  |  |  |  | 2            |  | 2     |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|-------|--|--|--|--|----------|--|--|--|--|---------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Enter |  |  |  |  | DB/WB/HR |  |  |  |  | Leave   |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | °C    |  |  |  |  | °C g/kg  |  |  |  |  | °C g/kg |  |  |  |  |
| Main Clg               |  |  |  |  | 0.26      |  |  |  |  | 14                     |  |  |  |  | 24.4  |  |  |  |  | 17.0     |  |  |  |  | 8.9     |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0      |  |  |  |  | 0.0     |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0   |  |  |  |  | 0.0      |  |  |  |  | 0.0     |  |  |  |  |
| Total                  |  |  |  |  | 0.38      |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |       |  |  |  |  |          |  |  |  |  |         |  |  |  |  |



FC0209 04 VESTIBULO V 2/1

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK        |          |       |          | HEATING COIL PEAK              |           |          |  |
|------------------------------|--------------|--------------|-------|-----------------------|----------|-------|----------|--------------------------------|-----------|----------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 1 OADB: 20 |          |       |          | Mo/Hr: Heating Design OADB: -5 |           |          |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                 | Percent  | Space | Percent  | Space Peak                     | Coil Peak | Percent  |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible              | Of Total | Total | Of Total | Space Sens                     | Tot Sens  | Of Total |  |
| kW                           | kW           | kW           | kW    | kW                    | (%)      | kW    | (%)      | kW                             | kW        | (%)      |  |
| Envelope Loads               |              |              |       |                       |          |       |          |                                |           |          |  |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Roof Cond                    | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Solar                  | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Cond                   | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Wall Cond                    | 0.03         | 0.00         | 0.03  | 0.03                  | 0        | 0.03  | 0        | -0.06                          | -0.08     | 0        |  |
| Partition                    | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exposed Floor                | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 0.03         | 0.00         | 0.03  | 0.03                  | 0        | 0.03  | 0        | -0.06                          | -0.08     | 0        |  |
| Internal Loads               |              |              |       |                       |          |       |          |                                |           |          |  |
| Lights                       | 0.03         | 0.01         | 0.04  | 0.03                  | 0        | 0.03  | 0        | 0.00                           | 0.00      | 0        |  |
| People                       | 0.05         | 0.00         | 0.05  | 0.02                  | 0        | 0.02  | 0        | 0.00                           | 0.00      | 0        |  |
| Misc                         | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 0.08         | 0.01         | 0.09  | 0.05                  | 0        | 0.05  | 0        | 0.00                           | 0.00      | 0        |  |
| Ceiling Load                 |              |              |       |                       |          |       |          |                                |           |          |  |
| Ventilation Load             | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Adj Air Trans Heat           | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Dehumid. Ov Sizing           | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| OvUndr Sizing                | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Exhaust Heat                 | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Sup. Fan Heat                | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Ret. Fan Heat                | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Duct Heat PkUp               | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.00                           | 0.00      | 0        |  |
| Reheat at Design             | 0.00         | 0.00         | 0.00  | 0.00                  | 0        | 0.00  | 0        | 0.01                           | 0.01      | 0        |  |
| Grand Total ==>              | 0.11         | 0.01         | 0.12  | 0.08                  | 100.00   | 0.08  | 100.00   | -0.06                          | -0.07     | 100.00   |  |

| TEMPERATURES |         |         |  |
|--------------|---------|---------|--|
| SADB         | Cooling | Heating |  |
| Plenum       | 13.4    | 30.3    |  |
| Return       | 24.4    | 21.8    |  |
| Ret/OA       | 24.4    | 21.8    |  |
| Fn MtrTD     | 24.4    | 21.8    |  |
| Fn BidTD     | 0.0     | 0.0     |  |
| Fn Frict     | 0.0     | 0.0     |  |

| AIRFLOWS   |         |         |  |
|------------|---------|---------|--|
| Vent       | Cooling | Heating |  |
| Infil      | 0       | 0       |  |
| Supply     | 0       | 0       |  |
| MinStop/Rh | 7       | 7       |  |
| Return     | 0       | 0       |  |
| Exhaust    | 7       | 7       |  |
| Rm Exh     | 0       | 0       |  |
| Auxil      | 0       | 0       |  |

| ENGINEERING CKS |         |         |   |
|-----------------|---------|---------|---|
| % OA            | Cooling | Heating |   |
| Lps/m²          | 0.0     | 0.0     |   |
| Lps/kW          | 1.27    | 1.27    |   |
| m²/kW           | 61.69   |         |   |
| W/m²            | 48.54   |         |   |
|                 | 20.59   | -12.40  |   |
| No. People      |         |         | 0 |

| COOLING COIL SELECTION |           |              |                |                |
|------------------------|-----------|--------------|----------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR | Leave DB/WB/HR |
| kW                     | kW        | L/s          | °C             | °C             |
| Main Clg               | 0.12      | 7            | 24.4           | 13.4           |
| Aux Clg                | 0.00      | 0            | 0.0            | 11.9           |
| Opt Vent               | 0.00      | 0            | 0.0            | 10.2           |
| Total                  | 0.12      | 0            | 0.0            | 8.9            |

| AREAS       |    | Glass |   |
|-------------|----|-------|---|
| Gross Total | m² | (%)   |   |
| Floor       | 6  |       |   |
| Part        | 24 |       |   |
| ExFlr       | 0  |       |   |
| Roof        | 0  | 0     | 0 |
| Wall        | 6  | 0     | 0 |

| HEATING COIL SELECTION |              |     |      |
|------------------------|--------------|-----|------|
| Capacity               | Coil Airflow | Ent | Lvg  |
| kW                     | L/s          | °C  | °C   |
| Main Htg               | -0.1         | 7   | 21.8 |
| Aux Htg                | 0.0          | 0   | 30.3 |
| Preheat                | 0.0          | 0   | 0.0  |
| Humidif                | 0.0          | 0   | 0.0  |
| Opt Vent               | 0.0          | 0   | 0.0  |
| Total                  | -0.1         |     |      |



## Room Checksums

By GOCSA

## FC0209 05 DESPINFORMACION V 1/125

| COOLING COIL PEAK  |  |                    |  |           |  |                |  |                  |  | CLG SPACE PEAK                 |  |                    |  | HEATING COIL PEAK |  |        |  | TEMPERATURES |  |         |  |
|--|--|--------------------|--|-----------|--|----------------|--|------------------|--|--------------------------------|--|--------------------|--|-------------------|--|--------|--|--------------|--|---------|--|
| Peaked at Time: Outside Air: OADB/WB/HR: 20 / 10 / 4 Mo/Hr: 7 / 1 OADB: 20 |  |                    |  |           |  |                |  |                  |  | Mo/Hr: Heating Design OADB: -5 |  |                    |  |                   |  |        |  |              |  |         |  |
| Space Sens. + Lat.   |  | Plenum Sens. + Lat |  | Net Total |  | Space Sensible |  | Percent Of Total |  | Space Peak Space Sens          |  | Coil Peak Tot Sens |  | Percent Of Total  |  | SADB   |  | Cooling      |  | Heating |  |
| kW   |  | kW                 |  | kW        |  | kW             |  | %                |  | kW                             |  | kW                 |  | %                 |  |        |  |              |  |         |  |
| Envelope Loads   |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  |              |  |         |  |
| Skylite Solar  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  | 14.3         |  | 24.0    |  |
| Skylite Cond   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  | 24.4         |  | 21.8    |  |
| Roof Cond  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  | 24.4         |  | 21.8    |  |
| Glass Solar  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  | 24.4         |  | 21.8    |  |
| Glass Cond   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  | 24.4         |  | 21.8    |  |
| Wall Cond  |  | 0.05               |  | 0.01      |  | 0.06           |  | 0                |  | 0.05                           |  | -0.13              |  | -0.16             |  | 0      |  | Fn MtrTD     |  | 0.0     |  |
| Partition  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  | Fn BidTD     |  | 0.0     |  |
| Exposed Floor  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  | Fn Frict     |  | 0.0     |  |
| Infiltration   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  |              |  |         |  |
| Sub Total ==>  |  | 0.05               |  | 0.01      |  | 0.06           |  | 0                |  | 0.05                           |  | -0.13              |  | -0.16             |  | 0      |  |              |  |         |  |
| Internal Loads   |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  |              |  |         |  |
| Lights   |  | 0.10               |  | 0.03      |  | 0.13           |  | 0                |  | 0.10                           |  | 0.00               |  | 0                 |  | 0.00   |  | Vent         |  | Cooling |  |
| People   |  | 0.26               |  | 0.00      |  | 0.26           |  | 0                |  | 0.15                           |  | 0.00               |  | 0                 |  | 0.00   |  | Infil        |  | Heating |  |
| Misc   |  | 0.35               |  | 0.00      |  | 0.35           |  | 0                |  | 0.35                           |  | 0.00               |  | 0                 |  | 0.00   |  | Supply       |  | 60      |  |
| Sub Total ==>  |  | 0.71               |  | 0.03      |  | 0.74           |  | 0                |  | 0.60                           |  | 0.00               |  | 0                 |  | 0.00   |  | MinStop/Rh   |  | 0       |  |
|  |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  | Return       |  | 60      |  |
|  |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  | Exhaust      |  | 0       |  |
|  |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  | Rm Exh       |  | 0       |  |
|  |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  | Auxil        |  | 0       |  |
|  |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  |              |  | 0       |  |
| Ceiling Load   |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  |              |  |         |  |
| Ventilation Load   |  | 0.01               |  | -0.01     |  | 0.00           |  | 0                |  | 0.01                           |  | -0.01              |  | 0                 |  | 0.00   |  | Cooling      |  | Heating |  |
| Adj Air Trans Heat   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  | 0.0          |  | 0.0     |  |
| Dehumid. Ov Sizing   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  |              |  |         |  |
| Ov/Undr Sizing   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  | Lps/m²       |  | 5.16    |  |
| Exhaust Heat   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  | Lps/kW       |  | 74.13   |  |
| Sup. Fan Heat  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  |              |  |         |  |
| Ret. Fan Heat  |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  |              |  |         |  |
| Duct Heat PkUp   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  | m²/kW        |  | 14.38   |  |
| Reheat at Design   |  | 0.00               |  | 0.00      |  | 0.00           |  | 0                |  | 0.00                           |  | 0.00               |  | 0                 |  | 0.00   |  | W/m²         |  | 69.52   |  |
| Grand Total ==>  |  | 0.77               |  | 0.03      |  | 0.80           |  | 100.00           |  | 0.66                           |  | -0.14              |  | -0.16             |  | 100.00 |  | No. People   |  | 2       |  |
| ENGINEERING CKS  |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  |              |  |         |  |
| % OA   |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  | Cooling      |  | Heating |  |
|  |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  | 0.0          |  | 0.0     |  |
| Lps/m²   |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  | 5.16         |  | 5.16    |  |
| Lps/kW   |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  | 74.13        |  | 74.13   |  |
| m²/kW  |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  | 14.38        |  | 14.38   |  |
| W/m²   |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  | 69.52        |  | -13.52  |  |
|  |  |                    |  |           |  |                |  |                  |  |                                |  |                    |  |                   |  |        |  |              |  |         |  |

| COOLING COIL SELECTION |           |              |                |                | HEATING COIL SELECTION |       |          |         |         |
|------------------------|-----------|--------------|----------------|----------------|------------------------|-------|----------|---------|---------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR | Leave DB/WB/HR | Gross Total            | Glass | Main Htg | Aux Htg | Preheat |
| kW                     | kW        | L/s          | °C             | °C             | kW                     | m²    |          |         |         |
| 0.80                   | 0.69      | 60           | 24.4           | 14.3           | 12                     |       |          |         |         |
| 0.00                   | 0.00      | 0            | 0.0            | 0.0            | 31                     |       |          |         |         |
| 0.00                   | 0.00      | 0            | 0.0            | 0.0            | 0                      |       |          |         |         |
| 0.80                   |           |              |                |                | 13                     |       |          |         |         |
|                        |           |              |                |                |                        |       |          |         |         |
|                        |           |              |                |                |                        |       |          |         |         |
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|                        |           |              |                |                |                        |       |          |         |         |
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|                        |           |              |                |                |                        |       |          |         |         |
|                        |           |              |                |                |                        |       |          |         |         |
|                        |           |              |                |                |                        |       |          |         |         |



## Room Checksums

By GOCSA

## FC0209 06 DESPINFORMACION V 1/125

| COOLING COIL PEAK   |  |                     |           |  |                |                  |                |  |  | CLG SPACE PEAK        |                    |                  |   | HEATING COIL PEAK              |  |                 |  | TEMPERATURES         |  |       |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
|---|--|---------------------|-----------|--|----------------|------------------|----------------|--|--|-----------------------|--------------------|------------------|---|--------------------------------|--|-----------------|--|----------------------|--|-------|--|--|--|------|--|--|--|--------|--|--|--|-------|--|--|--|-------|--|--|--|--------|--|--|--|
| Peaked at Time: Outside Air: Mo/Hr: 7 / 15 OADB/WB/HR: 36 / 22 / 11 |  |                     |           |  |                |                  |                |  |  | Mo/Hr: 7 / 2 OADB: 19 |                    |                  |   | Mo/Hr: Heating Design OADB: -5 |  |                 |  | SADB Cooling Heating |  |       |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Space Sens. + Lat.  |  | Plenum Sens. + Lat. | Net Total |  | Space Sensible | Percent Of Total | Envelope Loads |  |  | Space Peak Space Sens | Coil Peak Tot Sens | Percent Of Total | Plenum Return Ret/OA Fn MtrTD Fn BidTD Fn Frict |                                |  | Cooling Heating |  |                      |  |       |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| kW  |  | kW                  | kW        |  | kW             | (%)              | (%)            |  |  | kW                    | kW                 | (%)              |   |                                |  |                 |  |                      |  |       |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Envelope Loads  |  |                     |           |  |                |                  |                |  |  |                       |                    |                  |   |                                |  |                 |  |                      |  |       |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Skylite Solar   |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Skylite Cond  |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Roof Cond   |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Glass Solar   |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Glass Cond  |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Wall Cond   |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Partition   |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Exposed Floor   |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Infiltration  |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Sub Total ==>   |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Internal Loads  |  |                     |           |  |                |                  |                |  |  |                       |                    |                  |   |                                |  |                 |  |                      |  |       |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Lights  |  |                     |           |  |                |                  |                |  |  | 0.11                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| People  |  |                     |           |  |                |                  |                |  |  | 0.26                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Misc  |  |                     |           |  |                |                  |                |  |  | 0.35                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Sub Total ==>   |  |                     |           |  |                |                  |                |  |  | 0.75                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Ceiling Load  |  |                     |           |  |                |                  |                |  |  | -0.01                 |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Ventilation Load  |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Adj Air Trans Heat  |  |                     |           |  |                |                  |                |  |  | 0                     |                    |                  |   |                                |  |                 |  |                      |  | 0     |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Dehumid. Ov Sizing  |  |                     |           |  |                |                  |                |  |  | 0                     |                    |                  |   |                                |  |                 |  |                      |  | 0     |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Ov/Undr Sizing  |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Exhaust Heat  |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Sup. Fan Heat   |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Ret. Fan Heat   |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Duct Heat PkUp  |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | 0.00  |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Reheat at Design  |  |                     |           |  |                |                  |                |  |  | 0.00                  |                    |                  |   |                                |  |                 |  |                      |  | -0.02 |  |  |  |      |  |  |  |        |  |  |  |       |  |  |  |       |  |  |  |        |  |  |  |
| Grand Total ==>   |  |                     |           |  |                |                  |                |  |  | 0.73                  |                    |                  |   |                                |  |                 |  |                      |  | 0.02  |  |  |  | 0.75 |  |  |  | 100.00 |  |  |  | -0.01 |  |  |  | -0.02 |  |  |  | 100.00 |  |  |  |

| COOLING COIL SELECTION |  |           |              |                |  |                |  |       |  | AREAS           |  | HEATING COIL SELECTION |  |          |  |              |  |      |  |
|------------------------|--|-----------|--------------|----------------|--|----------------|--|-------|--|-----------------|--|------------------------|--|----------|--|--------------|--|------|--|
| Total Capacity         |  | Sens Cap. | Coil Airflow | Enter DB/WB/HR |  | Leave DB/WB/HR |  | Glass |  | Gross Total     |  | Main Htg               |  | Capacity |  | Coil Airflow |  | Ent  |  |
| kW                     |  | kW        | L/s          | °C             |  | °C             |  | m²    |  | Floor Part      |  | Aux Htg                |  | kW       |  | L/s          |  | °C   |  |
|                        |  |           |              |                |  |                |  | (%)   |  | ExFlr Roof Wall |  |                        |  |          |  |              |  |      |  |
| 0.75                   |  | 0.63      | 55           | 24.4           |  | 17.0           |  | 14.1  |  | 13              |  |                        |  | 0.0      |  | 55           |  | 21.8 |  |
| 0.00                   |  | 0.00      | 0            | 0.0            |  | 0.0            |  | 0.0   |  | 47              |  |                        |  | 0.0      |  | 0            |  | 0.0  |  |
| 0.00                   |  | 0.00      | 0            | 0.0            |  | 0.0            |  | 0.0   |  | 0               |  | ExFlr                  |  | 0.0      |  | 0            |  | 0.0  |  |
| 0.75                   |  | 0.63      | 55           | 24.4           |  | 17.0           |  | 14.1  |  | 13              |  | Roof Wall              |  | 0.0      |  | 0            |  | 0.0  |  |
| 0.00                   |  | 0.00      | 0            | 0.0            |  | 0.0            |  | 0.0   |  | 47              |  |                        |  | 0.0      |  | 0            |  | 0.0  |  |
| 0.00                   |  | 0.00      | 0            | 0.0            |  | 0.0            |  | 0.0   |  | 0               |  | Humidif                |  | 0.0      |  | 0            |  | 0.0  |  |
| 0.00                   |  | 0.00      | 0            | 0.0            |  | 0.0            |  | 0.0   |  | 0               |  | Opt Vent               |  | 0.0      |  | 0            |  | 0.0  |  |
| Total                  |  |           |              |                |  |                |  |       |  | Total           |  |                        |  |          |  |              |  |      |  |



Room Checksums

By GOCSA

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| COOLING COIL PEAK      |      |              |      |              |                        |                |                  |                    |      | CLG SPACE PEAK         |                    |                  |                    |             |                        |                    |                  |                    |        | HEATING COIL PEAK      |                    |                  |                    |      |            |                    |                  |                    |      | TEMPERATURES           |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
|------------------------|------|--------------|------|--------------|------------------------|----------------|------------------|--------------------|------|------------------------|--------------------|------------------|--------------------|-------------|------------------------|--------------------|------------------|--------------------|--------|------------------------|--------------------|------------------|--------------------|------|------------|--------------------|------------------|--------------------|------|------------------------|--------------------|------------------|--------------------|------|------------|--------------------|------------------|--------------------|------|--------------|------|--------------|----|--------------|----|--------------|----|--------------|----|--------------|----|--------------|----|
| Peaked at Time:        |      |              |      |              | Mo/Hr: 7 / 19          |                |                  |                    |      | Mo/Hr: 7 / 19          |                    |                  |                    |             | Mo/Hr: Heating Design  |                    |                  |                    |        | SADB                   |                    |                  |                    |      | Cooling    |                    |                  |                    |      | Heating                |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
| Outside Air:           |      |              |      |              | OADBWB/HR: 30 / 17 / 8 |                |                  |                    |      | OADB: 30               |                    |                  |                    |             | OADB: -5               |                    |                  |                    |        | Plenum                 |                    |                  |                    |      | 24.6       |                    |                  |                    |      | 21.8                   |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
| Space                  |      | Plenum       |      | Net Total    | Percent Of Total       | Space Sensible | Percent Of Total | Space Peak         |      | Space Sens             | Coil Peak Tot Sens | Percent Of Total | Space Sens         |             | Space Sens             | Coil Peak Tot Sens | Percent Of Total | Space Sens         |        | Space Sens             | Coil Peak Tot Sens | Percent Of Total | Space Sens         |      | Space Sens | Coil Peak Tot Sens | Percent Of Total | Space Sens         |      | Space Sens             | Coil Peak Tot Sens | Percent Of Total | Space Sens         |      | Space Sens | Coil Peak Tot Sens | Percent Of Total |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
| Sens. + Lat.           | kW   | Sens. + Lat. | kW   |              |                        |                |                  | Sens. + Lat.       | kW   |                        |                    |                  | Sens. + Lat.       | kW          |                        |                    |                  | Sens. + Lat.       | kW     |                        |                    |                  | Sens. + Lat.       | kW   |            |                    |                  | Sens. + Lat.       | kW   |                        |                    |                  | Sens. + Lat.       | kW   |            |                    |                  | Sens. + Lat.       | kW   | Sens. + Lat. | kW   | Sens. + Lat. | kW | Sens. + Lat. | kW | Sens. + Lat. | kW | Sens. + Lat. | kW | Sens. + Lat. | kW | Sens. + Lat. | kW |
| Envelope Loads         |      |              |      |              |                        |                |                  |                    |      | Envelope Loads         |                    |                  |                    |             |                        |                    |                  |                    |        | Envelope Loads         |                    |                  |                    |      |            |                    |                  |                    |      | Envelope Loads         |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
| Skylite Solar          | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | Skylite Solar      | 0.00 | 0.00                   | 0.00               | 0                | Skylite Solar      | 0.00        | 0.00                   | 0.00               | 0                | Skylite Solar      | 0.00   | 0.00                   | 0.00               | 0                | Skylite Solar      | 0.00 | 0.00       | 0.00               | 0                | Skylite Solar      | 0.00 | 0.00                   | 0.00               | 0                | Skylite Solar      | 0.00 | 0.00       | 0.00               | 0                | Skylite Solar      | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Skylite Cond           | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | Skylite Cond       | 0.00 | 0.00                   | 0.00               | 0                | Skylite Cond       | 0.00        | 0.00                   | 0.00               | 0                | Skylite Cond       | 0.00   | 0.00                   | 0.00               | 0                | Skylite Cond       | 0.00 | 0.00       | 0.00               | 0                | Skylite Cond       | 0.00 | 0.00                   | 0.00               | 0                | Skylite Cond       | 0.00 | 0.00       | 0.00               | 0                | Skylite Cond       | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Roof Cond              | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | Roof Cond          | 0.00 | 0.00                   | 0.00               | 0                | Roof Cond          | 0.00        | 0.00                   | 0.00               | 0                | Roof Cond          | 0.00   | 0.00                   | 0.00               | 0                | Roof Cond          | 0.00 | 0.00       | 0.00               | 0                | Roof Cond          | 0.00 | 0.00                   | 0.00               | 0                | Roof Cond          | 0.00 | 0.00       | 0.00               | 0                | Roof Cond          | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Glass Solar            | 0.44 | 0.00         | 0.44 | 0.44         | 26                     | 0.44           | 37               | Glass Solar        | 0.44 | 0.44                   | 0.44               | 37               | Glass Solar        | 0.44        | 0.44                   | 0.44               | 37               | Glass Solar        | 0.44   | 0.44                   | 0.44               | 37               | Glass Solar        | 0.44 | 0.44       | 0.44               | 37               | Glass Solar        | 0.44 | 0.44                   | 0.44               | 37               | Glass Solar        | 0.44 | 0.44       | 0.44               | 37               | Glass Solar        | 0.44 | 0.44         | 0.44 | 37           |    |              |    |              |    |              |    |              |    |              |    |
| Glass Cond             | 0.05 | 0.00         | 0.05 | 0.05         | 3                      | 0.05           | 4                | Glass Cond         | 0.05 | 0.05                   | 0.05               | 4                | Glass Cond         | 0.05        | 0.05                   | 0.05               | 4                | Glass Cond         | 0.05   | 0.05                   | 0.05               | 4                | Glass Cond         | 0.05 | 0.05       | 0.05               | 4                | Glass Cond         | 0.05 | 0.05                   | 0.05               | 4                | Glass Cond         | 0.05 | 0.05       | 0.05               | 4                | Glass Cond         | 0.05 | 0.05         | 0.05 | 4            |    |              |    |              |    |              |    |              |    |              |    |
| Wall Cond              | 0.01 | 0.00         | 0.01 | 0.01         | 1                      | 0.01           | 1                | Wall Cond          | 0.01 | 0.01                   | 0.01               | 1                | Wall Cond          | 0.01        | 0.01                   | 0.01               | 1                | Wall Cond          | 0.01   | 0.01                   | 0.01               | 1                | Wall Cond          | 0.01 | 0.01       | 0.01               | 1                | Wall Cond          | 0.01 | 0.01                   | 0.01               | 1                | Wall Cond          | 0.01 | 0.01       | 0.01               | 1                | Wall Cond          | 0.01 | 0.01         | 0.01 | 1            |    |              |    |              |    |              |    |              |    |              |    |
| Partition              | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | Partition          | 0.00 | 0.00                   | 0.00               | 0                | Partition          | 0.00        | 0.00                   | 0.00               | 0                | Partition          | 0.00   | 0.00                   | 0.00               | 0                | Partition          | 0.00 | 0.00       | 0.00               | 0                | Partition          | 0.00 | 0.00                   | 0.00               | 0                | Partition          | 0.00 | 0.00       | 0.00               | 0                | Partition          | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Exposed Floor          | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | Exposed Floor      | 0.00 | 0.00                   | 0.00               | 0                | Exposed Floor      | 0.00        | 0.00                   | 0.00               | 0                | Exposed Floor      | 0.00   | 0.00                   | 0.00               | 0                | Exposed Floor      | 0.00 | 0.00       | 0.00               | 0                | Exposed Floor      | 0.00 | 0.00                   | 0.00               | 0                | Exposed Floor      | 0.00 | 0.00       | 0.00               | 0                | Exposed Floor      | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Infiltration           | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | Infiltration       | 0.00 | 0.00                   | 0.00               | 0                | Infiltration       | 0.00        | 0.00                   | 0.00               | 0                | Infiltration       | 0.00   | 0.00                   | 0.00               | 0                | Infiltration       | 0.00 | 0.00       | 0.00               | 0                | Infiltration       | 0.00 | 0.00                   | 0.00               | 0                | Infiltration       | 0.00 | 0.00       | 0.00               | 0                | Infiltration       | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Sub Total ==>          | 0.50 | 0.00         | 0.50 | 0.50         | 30                     | 0.50           | 42               | Sub Total ==>      | 0.50 | 0.50                   | 0.50               | 42               | Sub Total ==>      | 0.50        | 0.50                   | 0.50               | 42               | Sub Total ==>      | 0.50   | 0.50                   | 0.50               | 42               | Sub Total ==>      | 0.50 | 0.50       | 0.50               | 42               | Sub Total ==>      | 0.50 | 0.50                   | 0.50               | 42               | Sub Total ==>      | 0.50 | 0.50       | 0.50               | 42               | Sub Total ==>      | 0.50 | 0.50         | 0.50 | 42           |    |              |    |              |    |              |    |              |    |              |    |
| Internal Loads         |      |              |      |              |                        |                |                  |                    |      | Internal Loads         |                    |                  |                    |             |                        |                    |                  |                    |        | Internal Loads         |                    |                  |                    |      |            |                    |                  |                    |      | Internal Loads         |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
| Lights                 | 0.23 | 0.06         | 0.29 | 0.29         | 17                     | 0.23           | 19               | Lights             | 0.23 | 0.23                   | 0.23               | 19               | Lights             | 0.23        | 0.23                   | 0.23               | 19               | Lights             | 0.23   | 0.23                   | 0.23               | 19               | Lights             | 0.23 | 0.23       | 0.23               | 19               | Lights             | 0.23 | 0.23                   | 0.23               | 19               | Lights             | 0.23 | 0.23       | 0.23               | 19               | Lights             | 0.23 | 0.23         | 0.23 | 19           |    |              |    |              |    |              |    |              |    |              |    |
| People                 | 0.88 | 0.00         | 0.88 | 0.88         | 53                     | 0.44           | 37               | People             | 0.44 | 0.44                   | 0.44               | 37               | People             | 0.44        | 0.44                   | 0.44               | 37               | People             | 0.44   | 0.44                   | 0.44               | 37               | People             | 0.44 | 0.44       | 0.44               | 37               | People             | 0.44 | 0.44                   | 0.44               | 37               | People             | 0.44 | 0.44       | 0.44               | 37               | People             | 0.44 | 0.44         | 0.44 | 37           |    |              |    |              |    |              |    |              |    |              |    |
| Misc                   | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | Misc               | 0.00 | 0.00                   | 0.00               | 0                | Misc               | 0.00        | 0.00                   | 0.00               | 0                | Misc               | 0.00   | 0.00                   | 0.00               | 0                | Misc               | 0.00 | 0.00       | 0.00               | 0                | Misc               | 0.00 | 0.00                   | 0.00               | 0                | Misc               | 0.00 | 0.00       | 0.00               | 0                | Misc               | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Sub Total ==>          | 1.11 | 0.06         | 1.17 | 1.17         | 70                     | 0.67           | 56               | Sub Total ==>      | 0.67 | 0.67                   | 0.67               | 56               | Sub Total ==>      | 0.67        | 0.67                   | 0.67               | 56               | Sub Total ==>      | 0.67   | 0.67                   | 0.67               | 56               | Sub Total ==>      | 0.67 | 0.67       | 0.67               | 56               | Sub Total ==>      | 0.67 | 0.67                   | 0.67               | 56               | Sub Total ==>      | 0.67 | 0.67       | 0.67               | 56               | Sub Total ==>      | 0.67 | 0.67         | 0.67 | 56           |    |              |    |              |    |              |    |              |    |              |    |
| Ceiling Load           |      |              |      |              |                        |                |                  |                    |      | Ceiling Load           |                    |                  |                    |             |                        |                    |                  |                    |        | Ceiling Load           |                    |                  |                    |      |            |                    |                  |                    |      | Ceiling Load           |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
| Ventilation Load       | 0.02 | -0.02        | 0.00 | 0.00         | 0                      | 0.02           | 2                | Ventilation Load   | 0.02 | 0.02                   | 0.02               | 2                | Ventilation Load   | 0.02        | 0.02                   | 0.02               | 2                | Ventilation Load   | 0.02   | 0.02                   | 0.02               | 2                | Ventilation Load   | 0.02 | 0.02       | 0.02               | 2                | Ventilation Load   | 0.02 | 0.02                   | 0.02               | 2                | Ventilation Load   | 0.02 | 0.02       | 0.02               | 2                | Ventilation Load   | 0.02 | 0.02         | 0.02 | 2            |    |              |    |              |    |              |    |              |    |              |    |
| Adj Air Trans Heat     | 0    | 0.00         | 0.00 | 0.00         | 0                      | 0              | 0                | Adj Air Trans Heat | 0    | 0                      | 0                  | 0                | Adj Air Trans Heat | 0           | 0                      | 0                  | 0                | Adj Air Trans Heat | 0      | 0                      | 0                  | 0                | Adj Air Trans Heat | 0    | 0          | 0                  | 0                | Adj Air Trans Heat | 0    | 0                      | 0                  | 0                | Adj Air Trans Heat | 0    | 0          | 0                  | 0                | Adj Air Trans Heat | 0    | 0            | 0    | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Dehumid. Ov Sizing     | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | Dehumid. Ov Sizing | 0.00 | 0.00                   | 0.00               | 0                | Dehumid. Ov Sizing | 0.00        | 0.00                   | 0.00               | 0                | Dehumid. Ov Sizing | 0.00   | 0.00                   | 0.00               | 0                | Dehumid. Ov Sizing | 0.00 | 0.00       | 0.00               | 0                | Dehumid. Ov Sizing | 0.00 | 0.00                   | 0.00               | 0                | Dehumid. Ov Sizing | 0.00 | 0.00       | 0.00               | 0                | Dehumid. Ov Sizing | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| OvUndr Sizing          | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | OvUndr Sizing      | 0.00 | 0.00                   | 0.00               | 0                | OvUndr Sizing      | 0.00        | 0.00                   | 0.00               | 0                | OvUndr Sizing      | 0.00   | 0.00                   | 0.00               | 0                | OvUndr Sizing      | 0.00 | 0.00       | 0.00               | 0                | OvUndr Sizing      | 0.00 | 0.00                   | 0.00               | 0                | OvUndr Sizing      | 0.00 | 0.00       | 0.00               | 0                | OvUndr Sizing      | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Exhaust Heat           | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | Exhaust Heat       | 0.00 | 0.00                   | 0.00               | 0                | Exhaust Heat       | 0.00        | 0.00                   | 0.00               | 0                | Exhaust Heat       | 0.00   | 0.00                   | 0.00               | 0                | Exhaust Heat       | 0.00 | 0.00       | 0.00               | 0                | Exhaust Heat       | 0.00 | 0.00                   | 0.00               | 0                | Exhaust Heat       | 0.00 | 0.00       | 0.00               | 0                | Exhaust Heat       | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Sup. Fan Heat          | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | Sup. Fan Heat      | 0.00 | 0.00                   | 0.00               | 0                | Sup. Fan Heat      | 0.00        | 0.00                   | 0.00               | 0                | Sup. Fan Heat      | 0.00   | 0.00                   | 0.00               | 0                | Sup. Fan Heat      | 0.00 | 0.00       | 0.00               | 0                | Sup. Fan Heat      | 0.00 | 0.00                   | 0.00               | 0                | Sup. Fan Heat      | 0.00 | 0.00       | 0.00               | 0                | Sup. Fan Heat      | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Ret. Fan Heat          | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | Ret. Fan Heat      | 0.00 | 0.00                   | 0.00               | 0                | Ret. Fan Heat      | 0.00        | 0.00                   | 0.00               | 0                | Ret. Fan Heat      | 0.00   | 0.00                   | 0.00               | 0                | Ret. Fan Heat      | 0.00 | 0.00       | 0.00               | 0                | Ret. Fan Heat      | 0.00 | 0.00                   | 0.00               | 0                | Ret. Fan Heat      | 0.00 | 0.00       | 0.00               | 0                | Ret. Fan Heat      | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Duct Heat PkUp         | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | Duct Heat PkUp     | 0.00 | 0.00                   | 0.00               | 0                | Duct Heat PkUp     | 0.00        | 0.00                   | 0.00               | 0                | Duct Heat PkUp     | 0.00   | 0.00                   | 0.00               | 0                | Duct Heat PkUp     | 0.00 | 0.00       | 0.00               | 0                | Duct Heat PkUp     | 0.00 | 0.00                   | 0.00               | 0                | Duct Heat PkUp     | 0.00 | 0.00       | 0.00               | 0                | Duct Heat PkUp     | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Reheat at Design       | 0.00 | 0.00         | 0.00 | 0.00         | 0                      | 0.00           | 0                | Reheat at Design   | 0.00 | 0.00                   | 0.00               | 0                | Reheat at Design   | 0.00        | 0.00                   | 0.00               | 0                | Reheat at Design   | 0.00   | 0.00                   | 0.00               | 0                | Reheat at Design   | 0.00 | 0.00       | 0.00               | 0                | Reheat at Design   | 0.00 | 0.00                   | 0.00               | 0                | Reheat at Design   | 0.00 | 0.00       | 0.00               | 0                | Reheat at Design   | 0.00 | 0.00         | 0.00 | 0            |    |              |    |              |    |              |    |              |    |              |    |
| Grand Total ==>        | 1.63 | 0.04         | 1.67 | 1.67         | 100.00                 | 1.19           | 100.00           | Grand Total ==>    | 1.19 | 1.19                   | 1.19               | 100.00           | Grand Total ==>    | 1.19        | 1.19                   | 1.19               | 100.00           | Grand Total ==>    | 1.19   | 1.19                   | 1.19               | 100.00           | Grand Total ==>    | 1.19 | 1.19       | 1.19               | 100.00           | Grand Total ==>    | 1.19 | 1.19                   | 1.19               | 100.00           | Grand Total ==>    | 1.19 | 1.19       | 1.19               | 100.00           | Grand Total ==>    | 1.19 | 1.19         | 1.19 | 100.00       |    |              |    |              |    |              |    |              |    |              |    |
| COOLING COIL SELECTION |      |              |      |              |                        |                |                  |                    |      | COOLING COIL SELECTION |                    |                  |                    |             |                        |                    |                  |                    |        | COOLING COIL SELECTION |                    |                  |                    |      |            |                    |                  |                    |      | COOLING COIL SELECTION |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
| Total Capacity         |      | Sens Cap.    |      | Coil Airflow | Enter °C               | DBWB/HR °C     | Leave DBWB/HR °C | g/kg               | g/kg | °C                     | °C                 | L/s              | kW                 | Capacity kW | HEATING COIL SELECTION |                    | Lvg °C           |                    |        |                        |                    |                  |                    |      |            |                    |                  |                    |      |                        |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
| kW                     | kW   | kW           | kW   |              |                        |                |                  |                    |      |                        |                    |                  |                    |             | Coil Airflow L/s       | Capacity kW        |                  | Coil Airflow L/s   | Ent °C |                        |                    |                  |                    |      |            |                    |                  |                    |      |                        |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
| Main Clg               | 1.66 | 1.23         | 83   | 24.4         | 17.0                   | 10.2           | 11.5             | 10.6               | 8.3  |                        |                    |                  |                    |             |                        | Main Htg           |                  |                    |        |                        |                    |                  |                    |      |            |                    |                  |                    |      |                        |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
| Aux Clg                | 0.00 | 0.00         | 0    | 0.0          | 0.0                    | 0.0            | 0.0              | 0.0                | 0.0  |                        |                    |                  |                    |             |                        | Aux Htg            |                  |                    |        |                        |                    |                  |                    |      |            |                    |                  |                    |      |                        |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
| Opt Vent               | 0.00 | 0.00         | 0    | 0.0          | 0.0                    | 0.0            | 0.0              | 0.0                | 0.0  |                        |                    |                  |                    |             |                        | Preheat            |                  |                    |        |                        |                    |                  |                    |      |            |                    |                  |                    |      |                        |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
| Total                  | 1.66 |              |      |              |                        |                |                  |                    |      |                        |                    |                  |                    |             |                        | Humidif            |                  |                    |        |                        |                    |                  |                    |      |            |                    |                  |                    |      |                        |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
|                        |      |              |      |              |                        |                |                  |                    |      |                        |                    |                  |                    |             |                        | Opt Vent           |                  |                    |        |                        |                    |                  |                    |      |            |                    |                  |                    |      |                        |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |
|                        |      |              |      |              |                        |                |                  |                    |      |                        |                    |                  |                    |             |                        | Total              |                  |                    |        |                        |                    |                  |                    |      |            |                    |                  |                    |      |                        |                    |                  |                    |      |            |                    |                  |                    |      |              |      |              |    |              |    |              |    |              |    |              |    |              |    |



## Room Checksums

By GOCSA

FC0209 08 CONSULTA 2 V 1/20

| COOLING COIL PEAK  |  |                       |  |              |  |                   |  |                      |  | CLG SPACE PEAK           |  |                       |  | HEATING COIL PEAK              |  |  |  | TEMPERATURES                        |  |   |  |  |  |
|--|--|-----------------------|--|--------------|--|-------------------|--|----------------------|--|--------------------------|--|-----------------------|--|--------------------------------|--|--|--|-------------------------------------|--|---|--|--|--|
| Peaked at Time: Mo/Hr: 7 / 19 Outside Air: OADB/WB/HR: 30 / 17 / 8 |  |                       |  |              |  |                   |  |                      |  | Mo/Hr: 7 / 19 OADB: 30   |  |                       |  | Mo/Hr: Heating Design OADB: -5 |  |  |  | SADB 15.4 Cooling 23.8 Heating 21.8 |  |   |  |  |  |
| Space Sens. + Lat. kW  |  | Plenum Sens. + Lat kW |  | Net Total kW |  | Space Sensible kW |  | Percent Of Total (%) |  | Space Peak Space Sens kW |  | Coil Peak Tot Sens kW |  | Percent Of Total (%)           |  | Plenum 24.4 Return 24.4 Ret/OA 24.4 Fn MtrTD 0.0 Fn BidTD 0.0 Fn Frict 0.0 |  |                                     |  |   |  |  |  |
| Envelope Loads   |  |                       |  |              |  |                   |  |                      |  | Envelope Loads           |  |                       |  |                                |  |  |  |                                     |  |   |  |  |  |
| Skylite Solar  |  |                       |  |              |  |                   |  |                      |  | Skylite Solar            |  |                       |  |                                |  |  |  |                                     |  |   |  |  |  |
| Skylite Cond   |  |                       |  |              |  |                   |  |                      |  | Skylite Cond             |  |                       |  |                                |  |  |  |                                     |  |   |  |  |  |
| Roof Cond  |  |                       |  |              |  |                   |  |                      |  | Roof Cond                |  |                       |  |                                |  |  |  |                                     |  |   |  |  |  |
| Glass Solar  |  |                       |  |              |  |                   |  |                      |  | Glass Solar              |  |                       |  |                                |  |  |  |                                     |  |   |  |  |  |
| Glass Cond   |  |                       |  |              |  |                   |  |                      |  | Glass Cond               |  |                       |  |                                |  |  |  |                                     |  |   |  |  |  |
| Wall Cond  |  |                       |  |              |  |                   |  |                      |  | Wall Cond                |  |                       |  |                                |  |  |  |                                     |  |   |  |  |  |
| Partition  |  |                       |  |              |  |                   |  |                      |  | Partition                |  |                       |  |                                |  |  |  |                                     |  |   |  |  |  |
| Exposed Floor  |  |                       |  |              |  |                   |  |                      |  | Exposed Floor            |  |                       |  |                                |  |  |  |                                     |  |   |  |  |  |
| Infiltration   |  |                       |  |              |  |                   |  |                      |  | Infiltration             |  |                       |  |                                |  |  |  |                                     |  |   |  |  |  |
| Sub Total ==>  |  |                       |  |              |  |                   |  |                      |  | Sub Total ==>            |  |                       |  |                                |  |  |  |                                     |  |   |  |  |  |
| Internal Loads   |  |                       |  |              |  |                   |  |                      |  | Internal Loads           |  |                       |  |                                |  |  |  |                                     |  | AIRFLOWS  |  |  |  |
| Lights   |  |                       |  |              |  |                   |  |                      |  | Lights                   |  |                       |  |                                |  |  |  |                                     |  | Cooling 0 Heating 0   |  |  |  |
| People   |  |                       |  |              |  |                   |  |                      |  | People                   |  |                       |  |                                |  |  |  |                                     |  | Vent 0 0 0  |  |  |  |
| Misc   |  |                       |  |              |  |                   |  |                      |  | Misc                     |  |                       |  |                                |  |  |  |                                     |  | Infil 0 0 0   |  |  |  |
| Sub Total ==>  |  |                       |  |              |  |                   |  |                      |  | Sub Total ==>            |  |                       |  |                                |  |  |  |                                     |  | Supply 116 MinStop/Rh 0 Return 116 Exhaust 0 Rm Exh 0 Auxil 0 |  |  |  |
| Ceiling Load   |  |                       |  |              |  |                   |  |                      |  | Ceiling Load             |  |                       |  |                                |  |  |  |                                     |  | 0 0   |  |  |  |
| Ventilation Load   |  |                       |  |              |  |                   |  |                      |  | Ventilation Load         |  |                       |  |                                |  |  |  |                                     |  | 0 0   |  |  |  |
| Adj Air Trans Heat   |  |                       |  |              |  |                   |  |                      |  | Adj Air Trans Heat       |  |                       |  |                                |  |  |  |                                     |  | 0 0   |  |  |  |
| Dehumid. Ov Sizing   |  |                       |  |              |  |                   |  |                      |  | Dehumid. Ov Sizing       |  |                       |  |                                |  |  |  |                                     |  | 0 0   |  |  |  |
| Ov/Undr Sizing   |  |                       |  |              |  |                   |  |                      |  | Ov/Undr Sizing           |  |                       |  |                                |  |  |  |                                     |  | 0 0   |  |  |  |
| Exhaust Heat   |  |                       |  |              |  |                   |  |                      |  | Exhaust Heat             |  |                       |  |                                |  |  |  |                                     |  | 7.45 7.45   |  |  |  |
| Sup. Fan Heat  |  |                       |  |              |  |                   |  |                      |  | Sup. Fan Heat            |  |                       |  |                                |  |  |  |                                     |  | 90.56 90.56   |  |  |  |
| Ret. Fan Heat  |  |                       |  |              |  |                   |  |                      |  | Ret. Fan Heat            |  |                       |  |                                |  |  |  |                                     |  | 0 0   |  |  |  |
| Duct Heat PkUp   |  |                       |  |              |  |                   |  |                      |  | Duct Heat PkUp           |  |                       |  |                                |  |  |  |                                     |  | 0 0   |  |  |  |
| Reheat at Design   |  |                       |  |              |  |                   |  |                      |  | Reheat at Design         |  |                       |  |                                |  |  |  |                                     |  | 12.15 12.15   |  |  |  |
| Grand Total ==>  |  |                       |  |              |  |                   |  |                      |  | Grand Total ==>          |  |                       |  |                                |  |  |  |                                     |  | 82.26 -17.50  |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 2   |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | No. People  |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | 2   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |
| 0.02   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.25   |  |  |  |
| 1.26   |  |                       |  |              |  |                   |  |                      |  | 1.15                     |  |                       |  |                                |  |  |  |                                     |  | -0.28   |  |  |  |
| 1.28   |  |                       |  |              |  |                   |  |                      |  | 100.00                   |  |                       |  |                                |  |  |  |                                     |  | 100.00  |  |  |  |



Room Checksums

By GOCSA

FC0209 09 ESPERA V 1/8

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK                   |          |          |          | HEATING COIL PEAK              |           |          |  |
|------------------------------|--------------|--------------|-------|----------------------------------|----------|----------|----------|--------------------------------|-----------|----------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |          |          |          | Mo/Hr: Heating Design OADB: -5 |           |          |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                            | Percent  | Percent  | Percent  | Space Peak                     | Coil Peak | Percent  |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible                         | Of Total | Of Total | Of Total | Space Sens                     | Tot Sens  | Of Total |  |
| kW                           | kW           | kW           | kW    | kW                               | (%)      | (%)      | (%)      | kW                             | kW        | (%)      |  |
| Envelope Loads               |              |              |       |                                  |          |          |          |                                |           |          |  |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Roof Cond                    | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Solar                  | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Cond                   | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Wall Cond                    | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Partition                    | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Exposed Floor                | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Internal Loads               |              |              |       |                                  |          |          |          |                                |           |          |  |
| Lights                       | 0.27         | 0.07         | 0.34  | 0.27                             | 26       | 26       | 26       | 0.00                           | 0.00      | 0        |  |
| People                       | 1.32         | 0.00         | 1.32  | 0.73                             | 72       | 72       | 72       | 0.00                           | 0.00      | 0        |  |
| Misc                         | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 1.59         | 0.07         | 1.66  | 1.00                             | 98       | 98       | 98       | 0.00                           | 0.00      | 0        |  |
| Ceiling Load                 |              |              |       |                                  |          |          |          |                                |           |          |  |
| Ventilation Load             | 0.02         | -0.02        | 0.00  | 0.02                             | 2        | 2        | 2        | -0.01                          | 0         | 0        |  |
| Adj Air Trans Heat           | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Dehumid. Ov Sizing           | 0            | 0            | 0     | 0                                | 0        | 0        | 0        | 0                              | 0         | 0        |  |
| OvUndr Sizing                | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Exhaust Heat                 | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Sup. Fan Heat                | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Ret. Fan Heat                | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Duct Heat PkUp               | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Reheat at Design             | 0.00         | 0.00         | 0.00  | 0.00                             | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Grand Total ==>              | 1.61         | 0.05         | 1.66  | 1.02                             | 100.00   | 100.00   | 100.00   | -0.01                          | -0.03     | 100.00   |  |

TEMPERATURES

|          |         |         |
|----------|---------|---------|
| SADB     | Cooling | Heating |
| Plenum   | 22.3    | 21.8    |
| Return   | 24.4    | 21.8    |
| Ret/OA   | 24.4    | 21.8    |
| Fn MtrTD | 0.0     | 0.0     |
| Fn BidTD | 0.0     | 0.0     |
| Fn Frict | 0.0     | 0.0     |

AIRFLOWS

|            |         |         |
|------------|---------|---------|
| Vent       | Cooling | Heating |
| Infil      | 0       | 0       |
| Supply     | 47      | 47      |
| MinStop/Rh | 0       | 0       |
| Return     | 47      | 47      |
| Exhaust    | 0       | 0       |
| Rm Exh     | 0       | 0       |
| Auxil      | 0       | 0       |

ENGINEERING CKS

|            |         |         |
|------------|---------|---------|
| % OA       | Cooling | Heating |
| Lps/m²     | 0.0     | 0.0     |
| Lps/kW     | 1.56    | 1.56    |
| m²/kW      | 28.68   |         |
| W/m²       | 18.44   | -0.90   |
| No. People | 54.21   | 10      |

COOLING COIL SELECTION

| Total Capacity | Sens Cap. | Coil Airflow | Enter | DB/WB/HR  | Leave   | DB/WB/HR |
|----------------|-----------|--------------|-------|-----------|---------|----------|
| kW             | kW        | L/s          | °C    | °C g/kg   | °C      | °C g/kg  |
| Main Clg       | 1.65      | 47           | 24.4  | 17.0 10.2 | 5.2 4.7 | 5.6      |
| Aux Clg        | 0.00      | 0            | 0.0   | 0.0 0.0   | 0.0 0.0 | 0.0      |
| Opt Vent       | 0.00      | 0            | 0.0   | 0.0 0.0   | 0.0 0.0 | 0.0      |
| Total          | 1.65      |              |       |           |         |          |

AREAS

| Gross Total | Glass | (%) |
|-------------|-------|-----|
| m²          |       |     |
| Floor       | 31    |     |
| Part        | 65    |     |
| ExFlr       | 0     |     |
| Roof        | 0     | 0   |
| Wall        | 0     | 0   |

HEATING COIL SELECTION

| Capacity | Coil Airflow | Ent | Lvg       |
|----------|--------------|-----|-----------|
| kW       | L/s          | °C  | °C        |
| Main Htg | 0.0          | 47  | 21.8 22.3 |
| Aux Htg  | 0.0          | 0   | 0.0 0.0   |
| Preheat  | 0.0          | 0   | 0.0 0.0   |
| Humidif  | 0.0          | 0   | 0.0 0.0   |
| Opt Vent | 0.0          | 0   | 0.0 0.0   |
| Total    | 0.0          |     |           |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums report 2025-08-03 of 194



## Room Checksums

By GOCSA

FC0209 10 CONSULTA 3 V 1/20

[illegible]



## Room Checksums

By GOCSA

FC0209 11 CONSULTA 4 V 1/20

| COOLING COIL PEAK            |  |           |  |              |  |                |  |                  |  | CLG SPACE PEAK         |  |                  |  | HEATING COIL PEAK              |  |                    |  | TEMPERATURES     |  |                   |  |         |  |         |  |
|------------------------------|--|-----------|--|--------------|--|----------------|--|------------------|--|------------------------|--|------------------|--|--------------------------------|--|--------------------|--|------------------|--|-------------------|--|---------|--|---------|--|
| Peaked at Time: Outside Air: |  |           |  |              |  |                |  |                  |  | Mo/Hr: 7 / 19 OADB: 30 |  |                  |  | Mo/Hr: Heating Design OADB: -5 |  |                    |  |                  |  |                   |  |         |  |         |  |
| Sens. + Lat.                 |  | Space     |  | Plenum       |  | Net Total      |  | Percent Of Total |  | Space Sensible         |  | Percent Of Total |  | Space Peak Space Sens          |  | Coil Peak Tot Sens |  | Percent Of Total |  | SADB              |  | Cooling |  | Heating |  |
| kW                           |  | kW        |  | kW           |  | kW             |  | %                |  | kW                     |  | %                |  | kW                             |  | kW                 |  | %                |  | Plenum            |  | 15.4    |  | 23.8    |  |
| Envelope Loads               |  |           |  |              |  |                |  |                  |  |                        |  |                  |  |                                |  |                    |  |                  |  |                   |  |         |  |         |  |
| Skylite Solar                |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  | Return            |  | 24.4    |  | 21.8    |  |
| Skylite Cond                 |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  | Ret/OA            |  | 24.4    |  | 21.8    |  |
| Roof Cond                    |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  | Fn MtrTD          |  | 0.0     |  | 0.0     |  |
| Glass Solar                  |  | 0.44      |  | 0.00         |  | 0.44           |  | 34               |  | 0.44                   |  | 38               |  | 0.44                           |  | 0.00               |  | 0                |  | Fn BidTD          |  | 0.0     |  | 0.0     |  |
| Glass Cond                   |  | 0.05      |  | 0.00         |  | 0.05           |  | 4                |  | 0.05                   |  | 4                |  | 0.05                           |  | -0.16              |  | 0                |  | Fn Frict          |  | 0.0     |  | 0.0     |  |
| Wall Cond                    |  | 0.01      |  | 0.00         |  | 0.01           |  | 1                |  | 0.01                   |  | 1                |  | 0.01                           |  | -0.08              |  | 0                |  |                   |  |         |  |         |  |
| Partition                    |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  |                   |  |         |  |         |  |
| Exposed Floor                |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  |                   |  |         |  |         |  |
| Infiltration                 |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  |                   |  |         |  |         |  |
| Sub Total ==>                |  | 0.50      |  | 0.00         |  | 0.50           |  | 39               |  | 0.50                   |  | 43               |  | -0.24                          |  | -0.26              |  | 0                |  |                   |  |         |  |         |  |
| Internal Loads               |  |           |  |              |  |                |  |                  |  |                        |  |                  |  |                                |  |                    |  |                  |  |                   |  |         |  |         |  |
| Lights                       |  | 0.14      |  | 0.03         |  | 0.17           |  | 13               |  | 0.14                   |  | 12               |  | 0.00                           |  | 0.00               |  | 0                |  | Vent              |  | 0       |  | 0       |  |
| People                       |  | 0.26      |  | 0.00         |  | 0.26           |  | 20               |  | 0.15                   |  | 13               |  | 0.00                           |  | 0.00               |  | 0                |  | Supply            |  | 116     |  | 116     |  |
| Misc                         |  | 0.35      |  | 0.00         |  | 0.35           |  | 27               |  | 0.35                   |  | 30               |  | 0.00                           |  | 0.00               |  | 0                |  | MinStop/Rh Return |  | 0       |  | 0       |  |
| Sub Total ==>                |  | 0.75      |  | 0.03         |  | 0.78           |  | 61               |  | 0.64                   |  | 56               |  | 0.00                           |  | 0.00               |  | 0                |  | Exhaust           |  | 0       |  | 0       |  |
| Engineering CKS              |  |           |  |              |  |                |  |                  |  |                        |  |                  |  |                                |  |                    |  |                  |  |                   |  |         |  |         |  |
| Ceiling Load                 |  | 0.01      |  | -0.01        |  | 0.00           |  | 0                |  | 0.01                   |  | 1                |  | -0.01                          |  | 0                  |  | 0                |  | % OA              |  | 0.0     |  | 0.0     |  |
| Ventilation Load             |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  | Lps/m²            |  | 7.45    |  | 7.45    |  |
| Adj Air Trans Heat           |  | 0         |  | 0.00         |  | 0              |  | 0                |  | 0                      |  | 0                |  | 0                              |  | 0                  |  | 0                |  | Lps/kW            |  | 90.56   |  |         |  |
| Dehumid. Ov Sizing           |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  | m²/kW             |  | 12.15   |  |         |  |
| Ov/Undr Sizing               |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  | W/m²              |  | 82.26   |  | -17.50  |  |
| Exhaust Heat                 |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  | No. People        |  | 2       |  |         |  |
| Sup. Fan Heat                |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  |                   |  |         |  |         |  |
| Ret. Fan Heat                |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  |                   |  |         |  |         |  |
| Duct Heat PkUp               |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | -0.02              |  | 0                |  |                   |  |         |  |         |  |
| Reheat at Design             |  | 0.00      |  | 0.00         |  | 0.00           |  | 0                |  | 0.00                   |  | 0                |  | 0.00                           |  | 0.00               |  | 0                |  |                   |  |         |  |         |  |
| Grand Total ==>              |  | 1.26      |  | 0.02         |  | 1.28           |  | 100.00           |  | 1.15                   |  | 100.00           |  | -0.25                          |  | -0.28              |  | 100.00           |  |                   |  |         |  |         |  |
| COOLING COIL SELECTION       |  |           |  |              |  |                |  |                  |  | HEATING COIL SELECTION |  |                  |  |                                |  |                    |  |                  |  |                   |  |         |  |         |  |
| Total Capacity               |  | Sens Cap. |  | Coil Airflow |  | Enter DB/WB/HR |  | Leave DB/WB/HR   |  | Gross Total            |  | Glass            |  | Capacity                       |  | Coil Airflow       |  | Ent              |  | Lvgr              |  |         |  |         |  |
| kW                           |  | kW        |  | L/s          |  | °C g/kg        |  | °C g/kg          |  | m²                     |  | %                |  | kW                             |  | L/s                |  | °C               |  | °C                |  |         |  |         |  |
| 1.28                         |  | 1.17      |  | 116          |  | 17.0 10.1      |  | 15.4 9.8         |  | 16                     |  |                  |  | -0.3                           |  | 116                |  | 21.8             |  | 23.8              |  |         |  |         |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 65                     |  |                  |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  |         |  |         |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  |                  |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  |         |  |         |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 12                     |  | 4                |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 4                |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 0.00                         |  | 0.00      |  | 0            |  | 0.0 0.0        |  | 0.0 0.0          |  | 0                      |  | 31               |  | 0.0                            |  | 0                  |  | 0.0              |  | 0.0               |  | 0.0     |  | 0.0     |  |
| 1.28                         |  | 1         |  | 0            |  | 0.             |  |                  |  |                        |  |                  |  |                                |  |                    |  |                  |  |                   |  |         |  |         |  |



## Room Checksums

By GOCSA

FC0209 12 DESPACHO SUPER V 1/125

[illegible]



Room Checksums

By GOCSA

FC0209 13 ESPERA V 1/8

| COOLING COIL PEAK               |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK            |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK |  |  |  |  |            |  |  |  |  | TEMPERATURES |  |  |  |  |          |  |  |  |  |        |  |  |  |  |          |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|-----------------------------------|--|--|--|--|-------------------|--|--|--|--|------------|--|--|--|--|--------------|--|--|--|--|----------|--|--|--|--|--------|--|--|--|--|----------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 14<br>OADBWB/HR: 36 / 21 / 11 |  |  |  |  | Mo/Hr: 7 / 14<br>OADB: 36 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB              |  |  |  |  | Cooling    |  |  |  |  | Heating      |  |  |  |  |          |  |  |  |  |        |  |  |  |  |          |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | Plenum                                   |  |  |  |  | Net                       |  |  |  |  | Space                             |  |  |  |  | Space Peak        |  |  |  |  | Coil Peak  |  |  |  |  | Percent      |  |  |  |  | Return   |  |  |  |  | Plenum |  |  |  |  |          |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | Sens. + Lat.                             |  |  |  |  | Total                     |  |  |  |  | Sensible                          |  |  |  |  | Percent           |  |  |  |  | Space Sens |  |  |  |  | Tot Sens     |  |  |  |  | Of Total |  |  |  |  | Ret/OA |  |  |  |  | Fn MtrTD |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 24.4   |  |  |  |  | 21.8     |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 24.4   |  |  |  |  | 21.8     |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | kW                                       |  |  |  |  | kW                        |  |  |  |  | kW                                |  |  |  |  | kW                |  |  |  |  | kW         |  |  |  |  | kW           |  |  |  |  | %        |  |  |  |  | 0.0    |  |  |  |  | 0.0      |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |            |  |  |  |  |              |  |  |  |  |          |  |  |  |  |        |  |  |  |  |          |  |  |  |  |



Room Checksums

By GOCSA

FC0209 14 ELECTRICIDAD EX 4/25

| COOLING COIL PEAK |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK    |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |              |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|-------------------|--|--|--|--|-------------------------|--|--|--|--|-------------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|--------------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:   |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 2      |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB              |  |  |  |  | Cooling      |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |
| Outside Air:      |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 19          |  |  |  |  | OADB: -5              |  |  |  |  | Plenum            |  |  |  |  | 24.4         |  |  |  |  | 21.8         |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
| COOLING COIL PEAK |  |  |  |  | CLG SPACE PEAK          |  |  |  |  | HEATING COIL PEAK |  |  |  |  | TEMPERATURES          |  |  |  |  | TEMPERATURES      |  |  |  |  | TEMPERATURES |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |



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| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK                        |          |          |          | HEATING COIL PEAK              |           |          |    |
|------------------------------|--------------|--------------|-------|---------------------------------------|----------|----------|----------|--------------------------------|-----------|----------|----|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 19 OADB/WB/HR: 30 / 17 / 8 |          |          |          | Mo/Hr: Heating Design OADB: -5 |           |          |    |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                                 | Percent  | Percent  | Percent  | Space Peak                     | Coil Peak | Percent  |    |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible                              | Of Total | Of Total | Of Total | Space Sens                     | Tot Sens  | Of Total |    |
| kW                           | kW           | kW           | kW    | kW                                    | (%)      | (%)      | (%)      | kW                             | kW        | (%)      |    |
| Envelope Loads               |              |              |       |                                       |          |          |          |                                |           |          |    |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0  |
| Roof Cond                    | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0  |
| Glass Solar                  | 1.48         | 0.00         | 1.48  | 1.65                                  | 43       | 27       | 43       | 0.00                           | 0.00      | 0        | 0  |
| Glass Cond                   | 0.09         | 0.00         | 0.09  | 0.03                                  | 1        | 0.03     | 1        | -0.29                          | -0.29     | 0        | 0  |
| Wall Cond                    | 0.07         | 0.02         | 0.09  | -0.02                                 | 2        | -0.02    | -1       | -0.33                          | -0.41     | 0        | 0  |
| Partition                    | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0.00     | 0        | 0.00                           | 0.00      | 0        | 0  |
| Exposed Floor                | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0.00     | 0        | 0.00                           | 0.00      | 0        | 0  |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0.00     | 0        | 0.00                           | 0.00      | 0        | 0  |
| Sub Total ==>                | 1.64         | 0.02         | 1.66  | 1.66                                  | 43       | 31       | 43       | -0.62                          | -0.70     | 0        | 0  |
| Internal Loads               |              |              |       |                                       |          |          |          |                                |           |          |    |
| Lights                       | 0.38         | 0.10         | 0.48  | 0.38                                  | 10       | 9        | 10       | 0.00                           | 0.00      | 0        | 0  |
| People                       | 3.26         | 0.00         | 3.26  | 1.78                                  | 46       | 60       | 46       | 0.00                           | 0.00      | 0        | 0  |
| Misc                         | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0  |
| Sub Total ==>                | 3.64         | 0.10         | 3.74  | 2.16                                  | 56       | 69       | 56       | 0.00                           | 0.00      | 0        | 0  |
| Ceiling Load                 |              |              |       |                                       |          |          |          |                                |           |          |    |
| Ventilation Load             | 0.05         | -0.05        | 0.00  | 0.03                                  | 1        | 0        | 1        | -0.03                          | 0         | 0        | 0  |
| Adj Air Trans Heat           | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0  |
| Dehumid. Ov Sizing           | 0            | 0            | 0     | 0                                     | 0        | 0        | 0        | 0                              | 0         | 0        | 0  |
| OvUndr Sizing                | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0  |
| Exhaust Heat                 | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0  |
| Sup. Fan Heat                | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0  |
| Ret. Fan Heat                | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0  |
| Duct Heat Pkup               | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0  |
| Reheat at Design             | 0.00         | 0.00         | 0.00  | 0.00                                  | 0        | 0        | 0        | 0.00                           | 0.00      | 0        | 0  |
| Grand Total ==>              | 5.33         | 0.07         | 5.40  | 3.85                                  | 100.00   | 100.00   | 100.00   | -0.65                          | -0.73     | 100.00   | 20 |

| TEMPERATURES |      |         |         |
|--------------|------|---------|---------|
| SADB         | 11.2 | Cooling | Heating |
| Plenum       | 24.4 | 24.4    | 21.8    |
| Return       | 24.4 | 24.4    | 21.8    |
| Ret/OA       | 24.4 | 24.4    | 21.8    |
| Fn MtrTD     | 0.0  | 0.0     | 0.0     |
| Fn BidTD     | 0.0  | 0.0     | 0.0     |
| Fn Frict     | 0.0  | 0.0     | 0.0     |

| AIRFLOWS   |     |         |         |
|------------|-----|---------|---------|
| Vent       | 0   | Cooling | Heating |
| Infil      | 0   | 0       | 0       |
| Supply     | 262 | 262     | 262     |
| MinStop/Rh | 0   | 0       | 0       |
| Return     | 262 | 262     | 262     |
| Exhaust    | 0   | 0       | 0       |
| Rm Exh     | 0   | 0       | 0       |
| Auxil      | 0   | 0       | 0       |

| ENGINEERING CKS |       |         |         |
|-----------------|-------|---------|---------|
| % OA            | 0.0   | Cooling | Heating |
| Lps/m²          | 3.83  | 0.0     | 0.0     |
| Lps/kW          | 48.51 | 3.83    | 3.83    |
| m²/kW           | 12.65 | 12.65   | -10.72  |
| W/m²            | 78.98 | 78.98   | -10.72  |
| No. People      | 20    |         |         |

| COOLING COIL SELECTION |           |              |                |
|------------------------|-----------|--------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR |
| kW                     | kW        | L/s          | °C °C g/kg     |
| Main Clg               | 5.40      | 3.92         | 17.0 10.2      |
| Aux Clg                | 0.00      | 0.00         | 11.2 10.4      |
| Opt Vent               | 0.00      | 0            | 0.0 0.0        |
| Total                  | 5.40      |              | 0.0 0.0        |

| AREAS       |    | Glass |
|-------------|----|-------|
| Gross Total | m² | (%)   |
| Floor       | 68 |       |
| Part        | 64 |       |
| ExFlr       | 0  |       |
| Roof        | 0  | 0     |
| Wall        | 41 | 7     |
| Total       |    | 17    |

| HEATING COIL SELECTION |              |     |      |
|------------------------|--------------|-----|------|
| Capacity               | Coil Airflow | Ent | Lvg  |
| kW                     | L/s          | °C  | °C   |
| Main Htg               | -0.7         | 262 | 21.8 |
| Aux Htg                | 0.0          | 0   | 24.2 |
| Preheat                | 0.0          | 0   | 0.0  |
| Humidif                | 0.0          | 0   | 0.0  |
| Opt Vent               | 0.0          | 0   | 0.0  |
| Total                  | -0.7         |     |      |



## Room Checksums

By GOCSA

## FC0209 16 RECEPCION V 1/125

[illegible]



Room Checksums

By GOCSA

FC0209 17 ASEO PAC EX 4/25

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK     |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK  |  |  |  |  |          |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------|--|--|--|--|-----------------------|--|--|--|--|--------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 2       |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB               |  |  |  |  | Cooling  |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 19           |  |  |  |  | OADB: -5              |  |  |  |  | Plenum             |  |  |  |  | 24.4     |  |  |  |  | 29.0         |  |  |  |  |  |  |  |  |  |
| Space              |  |  |  |  | Net                     |  |  |  |  | Space              |  |  |  |  | Space Peak            |  |  |  |  | Coil Peak          |  |  |  |  | Percent  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Total                   |  |  |  |  | Sensible           |  |  |  |  | Tot Sens              |  |  |  |  | Of Total           |  |  |  |  | Of Total |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| kW                 |  |  |  |  | kW                      |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                 |  |  |  |  | %        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  | Envelope Loads     |  |  |  |  |                       |  |  |  |  | Envelope Loads     |  |  |  |  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  | Internal Loads     |  |  |  |  |                       |  |  |  |  | Internal Loads     |  |  |  |  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  | Ceiling Load       |  |  |  |  |                       |  |  |  |  | Ceiling Load       |  |  |  |  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  | 0                       |  |  |  |  | 0                  |  |  |  |  | 0                     |  |  |  |  | 0                  |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                       |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |          |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 0        |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  | 0.00                    |  |  |  |  | 0.00               |  |  |  |  | 0.00                  |  |  |  |  | 0.00               |  |  |  |  | 100.00   |  |  |  |  |              |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Lvg  |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C   |  |  |  |  |
| Main Clg               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 21.8 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0      |  |  |  |  | 0.0          |  |  |  |  | 0.0  |  |  |  |  |



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| COOLING COIL PEAK            |  |  |  | CLG SPACE PEAK                       |  |  |  | HEATING COIL PEAK              |  |  |  | TEMPERATURES                   |  |  |  |
|------------------------------|--|--|--|--------------------------------------|--|--|--|--------------------------------|--|--|--|--------------------------------|--|--|--|
| Peaked at Time: Outside Air: |  |  |  | Mo/Hr: 9 / 18 OADBWB/HR: 26 / 16 / 9 |  |  |  | Mo/Hr: Heating Design OADB: -5 |  |  |  | SADB Cooling 12.8 Heating 24.7 |  |  |  |
| Plenum                       |  |  |  | Space Sensible                       |  |  |  | Space Peak Space Sens          |  |  |  | Plenum 24.3 21.8               |  |  |  |
| Sens. + Lat. kW              |  |  |  | Net Total kW                         |  |  |  | Percent Of Total (%)           |  |  |  | Return 24.3 21.8               |  |  |  |
| kW                           |  |  |  | kW                                   |  |  |  | kW                             |  |  |  | Ret/OA 24.3 21.8               |  |  |  |
| Envelope Loads               |  |  |  | Envelope Loads                       |  |  |  | Envelope Loads                 |  |  |  | Fn MtrTD 0.0 0.0               |  |  |  |
| Skylite Solar                |  |  |  | Skylite Solar                        |  |  |  | Skylite Solar                  |  |  |  | Fn BidTD 0.0 0.0               |  |  |  |
| Skylite Cond                 |  |  |  | Skylite Cond                         |  |  |  | Skylite Cond                   |  |  |  | Fn Frict 0.0 0.0               |  |  |  |
| Roof Cond                    |  |  |  | Roof Cond                            |  |  |  | Roof Cond                      |  |  |  |                                |  |  |  |
| Glass Solar                  |  |  |  | Glass Solar                          |  |  |  | Glass Solar                    |  |  |  |                                |  |  |  |
| Glass Cond                   |  |  |  | Glass Cond                           |  |  |  | Glass Cond                     |  |  |  |                                |  |  |  |
| Wall Cond                    |  |  |  | Wall Cond                            |  |  |  | Wall Cond                      |  |  |  |                                |  |  |  |
| Partition                    |  |  |  | Partition                            |  |  |  | Partition                      |  |  |  |                                |  |  |  |
| Exposed Floor                |  |  |  | Exposed Floor                        |  |  |  | Exposed Floor                  |  |  |  |                                |  |  |  |
| Infiltration                 |  |  |  | Infiltration                         |  |  |  | Infiltration                   |  |  |  |                                |  |  |  |
| Sub Total ==>                |  |  |  | Sub Total ==>                        |  |  |  | Sub Total ==>                  |  |  |  |                                |  |  |  |
| Internal Loads               |  |  |  | Internal Loads                       |  |  |  | Internal Loads                 |  |  |  | AIRFLOWS                       |  |  |  |
| Lights                       |  |  |  | Lights                               |  |  |  | Lights                         |  |  |  | Cooling Heating                |  |  |  |
| People                       |  |  |  | People                               |  |  |  | People                         |  |  |  | Vent 0 0                       |  |  |  |
| Misc                         |  |  |  | Misc                                 |  |  |  | Misc                           |  |  |  | Infil 0 0                      |  |  |  |
| Sub Total ==>                |  |  |  | Sub Total ==>                        |  |  |  | Sub Total ==>                  |  |  |  | Supply 62 62                   |  |  |  |
|                              |  |  |  |                                      |  |  |  |                                |  |  |  | MinStop/Rh 0 0                 |  |  |  |
|                              |  |  |  |                                      |  |  |  |                                |  |  |  | Return 62 62                   |  |  |  |
|                              |  |  |  |                                      |  |  |  |                                |  |  |  | Exhaust 0 0                    |  |  |  |
|                              |  |  |  |                                      |  |  |  |                                |  |  |  | Rm Exh 0 0                     |  |  |  |
|                              |  |  |  |                                      |  |  |  |                                |  |  |  | Auxil 0 0                      |  |  |  |
| Ceiling Load                 |  |  |  | Ceiling Load                         |  |  |  | Ceiling Load                   |  |  |  | ENGINEERING CKS                |  |  |  |
| Ventilation Load             |  |  |  | Ventilation Load                     |  |  |  | Ventilation Load               |  |  |  | Cooling Heating                |  |  |  |
| Adj Air Trans Heat           |  |  |  | Adj Air Trans Heat                   |  |  |  | Adj Air Trans Heat             |  |  |  | % OA 0.0 0.0                   |  |  |  |
| Dehumid. Ov Sizing           |  |  |  | Dehumid. Ov Sizing                   |  |  |  | Dehumid. Ov Sizing             |  |  |  |                                |  |  |  |
| Ov/Undr Sizing               |  |  |  | Ov/Undr Sizing                       |  |  |  | Ov/Undr Sizing                 |  |  |  | Lps/m² 15.00 15.00             |  |  |  |
| Exhaust Heat                 |  |  |  | Exhaust Heat                         |  |  |  | Exhaust Heat                   |  |  |  | Lps/kW 78.11                   |  |  |  |
| Sup. Fan Heat                |  |  |  | Sup. Fan Heat                        |  |  |  | Sup. Fan Heat                  |  |  |  |                                |  |  |  |
| Ret. Fan Heat                |  |  |  | Ret. Fan Heat                        |  |  |  | Ret. Fan Heat                  |  |  |  | m²/kW 5.21                     |  |  |  |
| Duct Heat Pkup               |  |  |  | Duct Heat Pkup                       |  |  |  | Duct Heat Pkup                 |  |  |  | W/m² 191.94 -50.18             |  |  |  |
| Reheat at Design             |  |  |  | Reheat at Design                     |  |  |  | Reheat at Design               |  |  |  |                                |  |  |  |
| Grand Total ==>              |  |  |  | Grand Total ==>                      |  |  |  | Grand Total ==>                |  |  |  | No. People 0                   |  |  |  |
|                              |  |  |  |                                      |  |  |  |                                |  |  |  | HEATING COIL SELECTION         |  |  |  |
| Total Capacity kW            |  |  |  | Sens Cap. kW                         |  |  |  | Coil Airflow L/s               |  |  |  | Capacity kW                    |  |  |  |
| Main Clg 0.79                |  |  |  | Main Clg 0.79                        |  |  |  | Main Clg 0.79                  |  |  |  | Main Htg 0.0                   |  |  |  |
| Aux Clg 0.00                 |  |  |  | Aux Clg 0.00                         |  |  |  | Aux Clg 0.00                   |  |  |  | Aux Htg 0.0                    |  |  |  |
| Opt Vent 0.00                |  |  |  | Opt Vent 0.00                        |  |  |  | Opt Vent 0.00                  |  |  |  | Preheat 0.0                    |  |  |  |
| Total 0.79                   |  |  |  | Total 0.79                           |  |  |  | Total 0.79                     |  |  |  | Humidif 0.0                    |  |  |  |
|                              |  |  |  |                                      |  |  |  |                                |  |  |  | Opt Vent 0.0                   |  |  |  |
|                              |  |  |  |                                      |  |  |  |                                |  |  |  | Total -0.2                     |  |  |  |



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| COOLING COIL PEAK |              |              |       | CLG SPACE PEAK |          |          |                    | HEATING COIL PEAK     |           |          |     | TEMPERATURES |         |         |  |
|-------------------|--------------|--------------|-------|----------------|----------|----------|--------------------|-----------------------|-----------|----------|-----|--------------|---------|---------|--|
| Peaked at Time:   |              |              |       | Mo/Hr: 7 / 19  |          |          |                    | Mo/Hr: Heating Design |           |          |     |              |         |         |  |
| Outside Air:      |              |              |       | OADB: 30       |          |          |                    | OADB: -5              |           |          |     |              |         |         |  |
| Sens. + Lat.      | Space        | Plenum       | Net   | Percent        | Space    | Percent  | Envelope Loads     | Space Sens            | Coil Peak | Percent  |     | SADB         | Cooling | Heating |  |
| Sens. + Lat.      | Sens. + Lat. | Sens. + Lat. | Total | Of Total       | Sensible | Of Total |                    | Space Sens            | Tot Sens  | Of Total | (%) | Plenum       |         |         |  |
| kW                | kW           | kW           | kW    | (%)            | kW       | (%)      |                    | kW                    | kW        | (%)      |     | Return       | 24.4    | 21.8    |  |
| 0.00              | 0.00         | 0.00         | 0.00  | 0              | 0.00     | 0        | Skylite Solar      | 0.00                  | 0.00      | 0        |     | Ret/OA       | 24.4    | 21.8    |  |
| 0.00              | 0.00         | 0.00         | 0.00  | 0              | 0.00     | 0        | Skylite Cond       | 0.00                  | 0.00      | 0        |     | Fn MtrTD     | 0.0     | 0.0     |  |
| 0.00              | 0.00         | 0.00         | 0.00  | 0              | 0.00     | 0        | Roof Cond          | 0.00                  | 0.00      | 0        |     | Fn BidTD     | 0.0     | 0.0     |  |
| 0.44              | 0.00         | 0.00         | 0.44  | 34             | 0.44     | 38       | Glass Solar        | 0.00                  | 0.00      | 0        |     | Fn Frict     | 0.0     | 0.0     |  |
| 0.05              | 0.00         | 0.00         | 0.05  | 4              | 0.05     | 4        | Glass Cond         | -0.16                 | -0.16     | 0        |     |              |         |         |  |
| 0.01              | 0.00         | 0.00         | 0.01  | 1              | 0.01     | 1        | Wall Cond          | -0.08                 | -0.10     | 0        |     |              |         |         |  |
| 0.00              | 0.00         | 0.00         | 0.00  | 0              | 0.00     | 0        | Partition          | 0.00                  | 0.00      | 0        |     |              |         |         |  |
| 0.00              | 0.00         | 0.00         | 0.00  | 0              | 0.00     | 0        | Exposed Floor      | 0.00                  | 0.00      | 0        |     |              |         |         |  |
| 0.00              | 0.00         | 0.00         | 0.00  | 0              | 0.00     | 0        | Infiltration       | 0.00                  | 0.00      | 0        |     |              |         |         |  |
| 0.50              | 0.00         | 0.00         | 0.50  | 39             | 0.50     | 43       | Sub Total ==>      | -0.24                 | -0.26     | 0        |     |              |         |         |  |
|                   |              |              |       |                |          |          | Internal Loads     |                       |           |          |     |              |         |         |  |
| 0.14              | 0.03         | 0.03         | 0.17  | 13             | 0.14     | 12       | Lights             | 0.00                  | 0.00      | 0        |     |              |         |         |  |
| 0.26              | 0.00         | 0.00         | 0.26  | 20             | 0.15     | 13       | People             | 0.00                  | 0.00      | 0        |     |              |         |         |  |
| 0.35              | 0.00         | 0.00         | 0.35  | 27             | 0.35     | 30       | Misc               | 0.00                  | 0.00      | 0        |     |              |         |         |  |
| 0.75              | 0.03         | 0.03         | 0.78  | 61             | 0.64     | 56       | Sub Total ==>      | 0.00                  | 0.00      | 0        |     |              |         |         |  |
|                   |              |              |       |                |          |          | Internal Loads     |                       |           |          |     |              |         |         |  |
| 0.01              | -0.01        | 0.00         | 0.00  | 0              | 0.01     | 1        | Ceiling Load       | -0.01                 | 0         | 0        |     |              |         |         |  |
| 0.00              | 0.00         | 0.00         | 0.00  | 0              | 0.00     | 0        | Ventilation Load   | 0.00                  | 0.00      | 0        |     |              |         |         |  |
| 0                 | 0            | 0            | 0     | 0              | 0        | 0        | Adj Air Trans Heat | 0                     | 0         | 0        |     |              |         |         |  |
|                   |              |              |       |                |          |          | Dehumid. Ov Sizing |                       |           |          |     |              |         |         |  |
| 0.00              | 0.00         | 0.00         | 0.00  | 0              | 0.00     | 0        | Ov/Undr Sizing     | 0.00                  | 0.00      | 0        |     |              |         |         |  |
|                   | 0.00         | 0.00         | 0.00  | 0              |          |          | Exhaust Heat       |                       | 0.00      | 0        |     |              |         |         |  |
|                   | 0.00         | 0.00         | 0.00  | 0              |          |          | OA Preheat Diff.   |                       | 0.00      | 0        |     |              |         |         |  |
|                   | 0.00         | 0.00         | 0.00  | 0              |          |          | RA Preheat Diff.   |                       | 0.00      | 0        |     |              |         |         |  |
|                   | 0.00         | 0.00         | 0.00  | 0              |          |          | Additional Reheat  |                       | 0.00      | 0        |     |              |         |         |  |
|                   | 0.00         | 0.00         | 0.00  | 0              |          |          | System Plenum Heat |                       | -0.02     | 0        |     |              |         |         |  |
| Grand Total ==>   | 1.26         | 0.02         | 1.28  | 100.00         | 1.15     | 100.00   | Grand Total ==>    | -0.25                 | -0.28     | 100.00   |     |              |         |         |  |

| COOLING COIL SELECTION |           |              |       |          |         | AREAS       |       |     |  |
|------------------------|-----------|--------------|-------|----------|---------|-------------|-------|-----|--|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter | DB/WB/HR | Leave   | Gross Total | Glass |     |  |
| kW                     | kW        | L/s          | °C    | °C g/kg  | °C g/kg |             | m²    | (%) |  |
| Main Clg               | 1.28      | 116          | 24.4  | 17.0     | 15.4    | Floor       | 16    |     |  |
| Aux Clg                | 0.00      | 0.00         | 0     | 0.0      | 0.0     | Part        | 65    |     |  |
| Opt Vent               | 0.00      | 0            | 0.0   | 0.0      | 0.0     | ExFlr       | 0     |     |  |
| Total                  | 1.28      |              |       |          |         | Roof        | 0     |     |  |
|                        |           |              |       |          |         | Wall        | 12    |     |  |
|                        |           |              |       |          |         |             | 0     |     |  |
|                        |           |              |       |          |         |             | 0     |     |  |
|                        |           |              |       |          |         |             | 4     |     |  |
|                        |           |              |       |          |         |             | 31    |     |  |

| HEATING COIL SELECTION |              |     |      |      |
|------------------------|--------------|-----|------|------|
| Capacity               | Coil Airflow | Ent | Lvg  |      |
| kW                     | L/s          | °C  | °C   |      |
| Main Htg               | -0.3         | 116 | 21.8 | 23.8 |
| Aux Htg                | 0.0          | 0   | 0.0  | 0.0  |
| Preheat                | 0.0          | 0   | 0.0  | 0.0  |
| Humidif                | 0.0          | 0   | 0.0  | 0.0  |
| Opt Vent               | 0.0          | 0   | 0.0  | 0.0  |
| Total                  | -0.3         |     |      |      |



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| COOLING COIL PEAK            |  |  |  | CLG SPACE PEAK                        |  |  |  | HEATING COIL PEAK              |  |  |  | TEMPERATURES          |  |  |  |
|------------------------------|--|--|--|---------------------------------------|--|--|--|--------------------------------|--|--|--|-----------------------|--|--|--|
| Peaked at Time: Outside Air: |  |  |  | Mo/Hr: 7 / 15 OADBWB/HR: 36 / 22 / 11 |  |  |  | Mo/Hr: Heating Design OADB: -5 |  |  |  | SADB Cooling Heating  |  |  |  |
| Sens. + Lat. kW              |  |  |  | Plenum Sens. + Lat. kW                |  |  |  | Net Total kW                   |  |  |  | Percent Of Total (%)  |  |  |  |
| Space kW                     |  |  |  | Sens. kW                              |  |  |  | Space Peak kW                  |  |  |  | Coil Peak Tot Sens kW |  |  |  |
| Envelope Loads               |  |  |  | Envelope Loads                        |  |  |  | Space Peak kW                  |  |  |  | Percent Of Total (%)  |  |  |  |
| Skylite Solar                |  |  |  | Skylite Solar                         |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Skylite Cond                 |  |  |  | Skylite Cond                          |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Roof Cond                    |  |  |  | Roof Cond                             |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Glass Solar                  |  |  |  | Glass Solar                           |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Glass Cond                   |  |  |  | Glass Cond                            |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Wall Cond                    |  |  |  | Wall Cond                             |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Partition                    |  |  |  | Partition                             |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Exposed Floor                |  |  |  | Exposed Floor                         |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Infiltration                 |  |  |  | Infiltration                          |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Sub Total ==>                |  |  |  | Sub Total ==>                         |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Internal Loads               |  |  |  | Internal Loads                        |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Lights                       |  |  |  | Lights                                |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| People                       |  |  |  | People                                |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Misc                         |  |  |  | Misc                                  |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Sub Total ==>                |  |  |  | Sub Total ==>                         |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Ceiling Load                 |  |  |  | Ceiling Load                          |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Ventilation Load             |  |  |  | Ventilation Load                      |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Adj Air Trans Heat           |  |  |  | Adj Air Trans Heat                    |  |  |  | 0                              |  |  |  | 0                     |  |  |  |
| Dehumid. Ov Sizing           |  |  |  | Dehumid. Ov Sizing                    |  |  |  | 0                              |  |  |  | 0                     |  |  |  |
| OvUndr Sizing                |  |  |  | OvUndr Sizing                         |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Exhaust Heat                 |  |  |  | Exhaust Heat                          |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Sup. Fan Heat                |  |  |  | Sup. Fan Heat                         |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Ret. Fan Heat                |  |  |  | Ret. Fan Heat                         |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Duct Heat Pkup               |  |  |  | Duct Heat Pkup                        |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Reheat at Design             |  |  |  | Reheat at Design                      |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| Grand Total ==>              |  |  |  | Grand Total ==>                       |  |  |  | 0.00                           |  |  |  | 0.00                  |  |  |  |
| No. People                   |  |  |  | No. People                            |  |  |  | 0                              |  |  |  | 0                     |  |  |  |
| Lps/m²                       |  |  |  | Lps/m²                                |  |  |  | 0.06                           |  |  |  | 0.06                  |  |  |  |
| Lps/kW                       |  |  |  | Lps/kW                                |  |  |  | 36,314.70                      |  |  |  | 36,314.70             |  |  |  |
| m²/kW                        |  |  |  | m²/kW                                 |  |  |  | 341,046.53                     |  |  |  | 341,046.53            |  |  |  |
| W/m²                         |  |  |  | W/m²                                  |  |  |  | 0.00                           |  |  |  | -0.47                 |  |  |  |
| Capacity kW                  |  |  |  | Capacity kW                           |  |  |  | 0.0                            |  |  |  | 0.0                   |  |  |  |
| Coil Airflow L/s             |  |  |  | Coil Airflow L/s                      |  |  |  | 0                              |  |  |  | 0                     |  |  |  |
| Ent °C                       |  |  |  | Ent °C                                |  |  |  | 21.8                           |  |  |  | 21.8                  |  |  |  |
| Lvg °C                       |  |  |  | Lvg °C                                |  |  |  | 0.0                            |  |  |  | 0.0                   |  |  |  |
| Humidif Opt Vent             |  |  |  | Humidif Opt Vent                      |  |  |  | 0.0                            |  |  |  | 0.0                   |  |  |  |
| Total                        |  |  |  | Total                                 |  |  |  | 0.0                            |  |  |  | 0.0                   |  |  |  |

| COOLING COIL SELECTION |  |  |  | AREAS        |  |  |  | HEATING COIL SELECTION |  |  |  |                  |  |  |  |
|------------------------|--|--|--|--------------|--|--|--|------------------------|--|--|--|------------------|--|--|--|
| Total Capacity kW      |  |  |  | Gross Total  |  |  |  | Capacity kW            |  |  |  | Coil Airflow L/s |  |  |  |
| Sens Cap. kW           |  |  |  | Glass m² (%) |  |  |  | Main Htg               |  |  |  | Lvg °C           |  |  |  |
| 0.00                   |  |  |  | 4            |  |  |  | 0.0                    |  |  |  | 21.8             |  |  |  |
| 0.00                   |  |  |  | 29           |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
| 0.00                   |  |  |  | 0            |  |  |  | 0.0                    |  |  |  | 0.0              |  |  |  |
|                        |  |  |  |              |  |  |  |                        |  |  |  |                  |  |  |  |



Room Checksums

By GOCSA

FC0209 21 ASEO VEST EX 4/75

| COOLING COIL PEAK               |  |       |             |    |  |                     |                   |                     |                          | CLG SPACE PEAK           |                     |                |                    |     | HEATING COIL PEAK                 |     |    |                 |         | TEMPERATURES   |      |         |         |        |  |                    |      |            |  |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|-------|-------------|----|--|---------------------|-------------------|---------------------|--------------------------|--------------------------|---------------------|----------------|--------------------|-----|-----------------------------------|-----|----|-----------------|---------|--|------|---------|---------|--------|--|--------------------|------|------------|--|--|--|--|--|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |       |             |    | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |                     |                   |                     |                          | Mo/Hr: 7 / 2<br>OADB: 19 |                     |                |                    |     | Mo/Hr: Heating Design<br>OADB: -5 |     |    |                 |         | SADB<br>Plenum<br>Return<br>Ret/OA<br>Fn MtrTD<br>Fn BidTD<br>Fn Frict |      |         |         |        | Cooling<br>12.8<br>24.4<br>24.4<br>24.4<br>0.0<br>0.0<br>0.0 |                    |      |            |  | Heating<br>29.0<br>21.8<br>21.8<br>21.8<br>0.0<br>0.0<br>0.0 |  |  |  |  |  |  |  |  |
| Sens. + Lat.                    |  | Space | Plenum      |    | Net<br>Total                             | Percent<br>Of Total | Space<br>Sensible | Percent<br>Of Total | Space Peak<br>Space Sens | Coil Peak<br>Tot Sens    | Percent<br>Of Total | Envelope Loads | AIRFLOWS           |     |                                   |     |    | ENGINEERING CKS |         |  |      |         |         |        |  |                    |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.                    |  | kW    | Sens. + Lat | kW |  |                     |                   |                     |                          |                          |                     |                | kW                 | (%) | kW                                | (%) | kW | (%)             | Cooling | Heating  | % OA | Cooling | Heating | Lps/m² | Lps/kW   | m²/kW              | W/m² | No. People |  |  |  |  |  |  |  |  |  |  |
| Envelope Loads                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Envelope Loads     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Envelope Loads     |      |            |  |  |  |  |  |  |  |  |  |  |
| Skylite Solar                   |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Skylite Solar      |     |                                   |     |    |                 |         |  |      |         |         |        |  | Skylite Solar      |      |            |  |  |  |  |  |  |  |  |  |  |
| Skylite Cond                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Skylite Cond       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Skylite Cond       |      |            |  |  |  |  |  |  |  |  |  |  |
| Roof Cond                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Roof Cond          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Roof Cond          |      |            |  |  |  |  |  |  |  |  |  |  |
| Glass Solar                     |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Glass Solar        |     |                                   |     |    |                 |         |  |      |         |         |        |  | Glass Solar        |      |            |  |  |  |  |  |  |  |  |  |  |
| Glass Cond                      |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Glass Cond         |     |                                   |     |    |                 |         |  |      |         |         |        |  | Glass Cond         |      |            |  |  |  |  |  |  |  |  |  |  |
| Wall Cond                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Wall Cond          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Wall Cond          |      |            |  |  |  |  |  |  |  |  |  |  |
| Partition                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Partition          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Partition          |      |            |  |  |  |  |  |  |  |  |  |  |
| Exposed Floor                   |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Exposed Floor      |     |                                   |     |    |                 |         |  |      |         |         |        |  | Exposed Floor      |      |            |  |  |  |  |  |  |  |  |  |  |
| Infiltration                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Infiltration       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Infiltration       |      |            |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sub Total ==>      |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sub Total ==>      |      |            |  |  |  |  |  |  |  |  |  |  |
| Internal Loads                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Internal Loads     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Internal Loads     |      |            |  |  |  |  |  |  |  |  |  |  |
| Lights                          |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Lights             |     |                                   |     |    |                 |         |  |      |         |         |        |  | Lights             |      |            |  |  |  |  |  |  |  |  |  |  |
| People                          |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | People             |     |                                   |     |    |                 |         |  |      |         |         |        |  | People             |      |            |  |  |  |  |  |  |  |  |  |  |
| Misc                            |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Misc               |     |                                   |     |    |                 |         |  |      |         |         |        |  | Misc               |      |            |  |  |  |  |  |  |  |  |  |  |
| Sub Total ==>                   |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sub Total ==>      |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sub Total ==>      |      |            |  |  |  |  |  |  |  |  |  |  |
| Ceiling Load                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Ceiling Load       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Ceiling Load       |      |            |  |  |  |  |  |  |  |  |  |  |
| Ventilation Load                |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Ventilation Load   |     |                                   |     |    |                 |         |  |      |         |         |        |  | Ventilation Load   |      |            |  |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat              |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Adj Air Trans Heat |     |                                   |     |    |                 |         |  |      |         |         |        |  | Adj Air Trans Heat |      |            |  |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing              |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Dehumid. Ov Sizing |     |                                   |     |    |                 |         |  |      |         |         |        |  | Dehumid. Ov Sizing |      |            |  |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Ov/Undr Sizing     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Ov/Undr Sizing     |      |            |  |  |  |  |  |  |  |  |  |  |
| Exhaust Heat                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Exhaust Heat       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Exhaust Heat       |      |            |  |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat                   |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sup. Fan Heat      |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sup. Fan Heat      |      |            |  |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat                   |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Ret. Fan Heat      |     |                                   |     |    |                 |         |  |      |         |         |        |  | Ret. Fan Heat      |      |            |  |  |  |  |  |  |  |  |  |  |
| Duct Heat PkUp                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Duct Heat PkUp     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Duct Heat PkUp     |      |            |  |  |  |  |  |  |  |  |  |  |
| Reheat at Design                |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Reheat at Design   |     |                                   |     |    |                 |         |  |      |         |         |        |  | Reheat at Design   |      |            |  |  |  |  |  |  |  |  |  |  |
| Grand Total ==>                 |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Grand Total ==>    |     |                                   |     |    |                 |         |  |      |         |         |        |  | Grand Total ==>    |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
| Total                           |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total              |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total              |      |            |  |  |  |  |  |  |  |  |  |  |
| Total Capacity                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Total Capacity     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Total Capacity     |      |            |  |  |  |  |  |  |  |  |  |  |
| Sens Cap.                       |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Sens Cap.          |     |                                   |     |    |                 |         |  |      |         |         |        |  | Sens Cap.          |      |            |  |  |  |  |  |  |  |  |  |  |
| Coil Airflow                    |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Coil Airflow       |     |                                   |     |    |                 |         |  |      |         |         |        |  | Coil Airflow       |      |            |  |  |  |  |  |  |  |  |  |  |
| Enter DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Enter DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Enter DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Leave DB/WB/HR                  |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Leave DB/WB/HR     |     |                                   |     |    |                 |         |  |      |         |         |        |  | Leave DB/WB/HR     |      |            |  |  |  |  |  |  |  |  |  |  |
| Main Clg                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Main Clg           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Main Clg           |      |            |  |  |  |  |  |  |  |  |  |  |
| Aux Clg                         |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Aux Clg            |     |                                   |     |    |                 |         |  |      |         |         |        |  | Aux Clg            |      |            |  |  |  |  |  |  |  |  |  |  |
| Opt Vent                        |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                | Opt Vent           |     |                                   |     |    |                 |         |  |      |         |         |        |  | Opt Vent           |      |            |  |  |  |  |  |  |  |  |  |  |
|                                 |  |       |             |    |  |                     |                   |                     |                          |                          |                     |                |                    |     |                                   |     |    |                 |         |  |      |         |         |        |  |                    |      |            |  |  |  |  |  |  |  |  |  |  |



## Room Checksums

By GOCSA

FC0209 22 ASE0 VEST EX 4/75

| COOLING COIL PEAK            |                     |              |                |                  |                |                  |                    |         |             | CLG SPACE PEAK                         |                       |                    |                  | HEATING COIL PEAK     |          |        |        | TEMPERATURES                   |          |          |            |         |
|------------------------------|---------------------|--------------|----------------|------------------|----------------|------------------|--------------------|---------|-------------|--|-----------------------|--------------------|------------------|-----------------------|----------|--------|--------|--------------------------------|----------|----------|------------|---------|
| Peaked at Time: Outside Air: |                     |              |                |                  |                |                  |                    |         |             | Mo/Hr: 7 / 15 OADB/WB/HR: 36 / 22 / 11 |                       |                    |                  | Mo/Hr: 7 / 2 OADB: 19 |          |        |        | Mo/Hr: Heating Design OADB: -5 |          |          |            |         |
| Space Sens. + Lat.           | Plenum Sens. + Lat. | Net Total    | Space Sensible | Percent Of Total | Space Sensible | Percent Of Total | Envelope Loads     |         |             |  | Space Peak Space Sens | Coil Peak Tot Sens | Percent Of Total | SADB                  | Plenum   | Return | Ret/OA | Fn MtrTD                       | Fn BidTD | Fn Frict | Cooling    | Heating |
|                              |                     |              |                |                  |                |                  |                    |         |             |  |                       |                    |                  |                       |          |        |        |                                |          |          |            |         |
| Envelope Loads               |                     |              |                |                  |                |                  |                    |         |             |  |                       |                    |                  |                       |          |        |        |                                |          |          |            |         |
| Skylite Solar                | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Skylite Solar      | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0.0                            | 0.0      | 0.0      | 12.8       | 29.0    |
| Skylite Cond                 | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Skylite Cond       | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0.0                            | 0.0      | 0.0      | 24.4       | 21.8    |
| Roof Cond                    | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Roof Cond          | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0.0                            | 0.0      | 0.0      | 24.4       | 21.8    |
| Glass Solar                  | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Glass Solar        | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0.0                            | 0.0      | 0.0      | 24.4       | 21.8    |
| Glass Cond                   | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Glass Cond         | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0.0                            | 0.0      | 0.0      | 0.0        | 0.0     |
| Wall Cond                    | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Wall Cond          | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0.0                            | 0.0      | 0.0      | 0.0        | 0.0     |
| Partition                    | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Partition          | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0.0                            | 0.0      | 0.0      | 0.0        | 0.0     |
| Exposed Floor                | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Exposed Floor      | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0.0                            | 0.0      | 0.0      | 0.0        | 0.0     |
| Infiltration                 | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Infiltration       | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0.0                            | 0.0      | 0.0      | 0.0        | 0.0     |
| Sub Total ==>                | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Sub Total ==>      | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0.0                            | 0.0      | 0.0      | 0.0        | 0.0     |
| Internal Loads               |                     |              |                |                  |                |                  |                    |         |             |  |                       |                    |                  |                       |          |        |        |                                |          |          |            |         |
| Lights                       | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Lights             | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        | 0          | 0       |
| People                       | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | People             | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        | 0          | 0       |
| Misc                         | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Misc               | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        | 0          | 0       |
| Sub Total ==>                | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Sub Total ==>      | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        | 0          | 0       |
| Ceiling Load                 |                     |              |                |                  |                |                  |                    |         |             |  |                       |                    |                  |                       |          |        |        |                                |          |          |            |         |
| Ventilation Load             | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Ceiling Load       | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        | 0          | 0       |
| Adj Air Trans Heat           | 0                   | 0.00         | 0.00           | 0                | 0              | 0                | Ventilation Load   | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        | 0          | 0       |
| Dehumid. Ov Sizing           | 0.00                | 0            | 0              | 0                | 0.00           | 0                | Adj Air Trans Heat | 0       | 0           | 0                                      | 0                     | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        | 0.0        | 0.0     |
| Ov/Undr Sizing               | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Ov/Undr Sizing     | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        | 0.06       | 0.06    |
| Exhaust Heat                 | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Exhaust Heat       | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        | 36,314.70  |         |
| Sup. Fan Heat                | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | OA Preheat Diff.   | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        |            |         |
| Ret. Fan Heat                | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | RA Preheat Diff.   | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        |            |         |
| Duct Heat PkUp               | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | Additional Reheat  | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        | 341,046.53 |         |
| Reheat at Design             | 0.00                | 0.00         | 0.00           | 0                | 0.00           | 0                | System Plenum Heat | 0.00    | 0.00        | 0.00                                   | 0.00                  | 0                  | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        | 0.00       | -0.47   |
| Grand Total ==>              | 0.00                | 0.00         | 0.00           | 100.00           | 0.00           | 100.00           | Grand Total ==>    | 0.00    | 0.00        | 100.00                                 | 0.00                  | 100.00             | 0.00             | 0.00                  | 0        | 0.00   | 0.00   | 0                              | 0        | 0        | 0          |         |
|                              |                     |              |                |                  |                |                  |                    |         |             |  |                       |                    |                  |                       |          |        |        |                                |          |          |            |         |
| COOLING COIL SELECTION       |                     |              |                |                  |                |                  |                    |         |             | HEATING COIL SELECTION                 |                       |                    |                  |                       |          |        |        |                                |          |          |            |         |
| Total Capacity               | Sens Cap.           | Coil Airflow | Enter          | Leave            | DBWB/HR        | DBWB/HR          | DBWB/HR            | DBWB/HR | Gross Total | Glass                                  | Capacity              | Coil Airflow       | Ent              | Lvg                   |          |        |        |                                |          |          |            |         |
| kw                           | kw                  | L/s          | °C             | °C               | °C g/kg        | °C g/kg          | °C g/kg            | °C g/kg | m² (%)      | m² (%)                                 | kW                    | L/s                | °C               | °C                    |          |        |        |                                |          |          |            |         |
| 0.00                         | 0.00                | 0            | 24.4           | 12.8             | 15.0 7.8       | 10.6 7.8         | 12.8 10.6          | 7.8 7.8 | 4           |  |                       |                    |                  |                       | Main Htg | 0.0    | 0      | 21.8                           | 29.0     | 0.0      | 0          |         |
| 0.00                         | 0.00                | 0            | 0.0            | 0.0              | 0.0 0.0        | 0.0 0.0          | 0.0 0.0            | 0.0 0.0 | 29          |  |                       |                    |                  |                       | Aux Htg  | 0.0    | 0      | 0.0                            | 0.0      | 0.0      | 0          |         |
| 0.00                         | 0.00                | 0            | 0.0            | 0.0              | 0.0 0.0        | 0.0 0.0          | 0.0 0.0            | 0.0 0.0 | 0           |  |                       |                    |                  |                       | Preheat  | 0.0    | 0      | 0.0                            | 0.0      | 0.0      | 0          |         |
| 0.00                         | 0.00                |              |                |                  |                |                  |                    |         | 0           |  |                       |                    |                  |                       | Humidif  | 0.0    | 0      | 0.0                            | 0.0      | 0.0      | 0          |         |
|                              |                     |              |                |                  |                |                  |                    |         | 0           |  |                       |                    |                  |                       | Opt Vent | 0.0    | 0      | 0.0                            | 0.0      | 0.0      | 0          |         |
| Total                        |                     |              |                |                  |                |                  |                    |         | 0           |  |                       |                    |                  |                       | Total    |        |        |                                |          |          |            |         |



## Room Checksums

By GOCSA

FC0209 25 ASEO EX 4/25

| COOLING COIL PEAK            |  |              |  |                  |  |                   |  |                   |  | CLG SPACE PEAK                         |  |                        |  | HEATING COIL PEAK              |  |                      |  | TEMPERATURES             |  |                       |  |                      |  |         |  |            |  |            |  |
|------------------------------|--|--------------|--|------------------|--|-------------------|--|-------------------|--|--|--|------------------------|--|--------------------------------|--|----------------------|--|--------------------------|--|-----------------------|--|----------------------|--|---------|--|------------|--|------------|--|
| Peaked at Time: Outside Air: |  |              |  |                  |  |                   |  |                   |  | Mo/Hr: 7 / 15 OADB/WB/HR: 36 / 22 / 11 |  |                        |  | Mo/Hr: Heating Design OADB: -5 |  |                      |  | SADB                     |  |                       |  | Cooling              |  | Heating |  |            |  |            |  |
| Sens. + Lat. kW              |  |              |  |                  |  |                   |  |                   |  | Space kW                               |  | Plenum Sens. + Lat. kW |  | Net Total kW                   |  | Percent Of Total (%) |  | Space Peak Space Sens kW |  | Coil Peak Tot Sens kW |  | Percent Of Total (%) |  | Return  |  | 21.8       |  | 21.8       |  |
| Envelope Loads               |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0.00                           |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0.0     |  | 0.0        |  | 0.0        |  |
| Skylite Solar                |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Skylite Cond                 |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Roof Cond                    |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Glass Solar                  |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Glass Cond                   |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Wall Cond                    |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Partition                    |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Exposed Floor                |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Infiltration                 |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Sub Total ==>                |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Internal Loads               |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Lights                       |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| People                       |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Misc                         |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Sub Total ==>                |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Ceiling Load                 |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Ventilation Load             |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.0        |  | 0.0        |  |
| Adj Air Trans Heat           |  |              |  |                  |  |                   |  |                   |  | 0                                      |  | 0                      |  | 0                              |  | 0                    |  | 0                        |  | 0                     |  | 0                    |  | 0       |  | 0.0        |  | 0.0        |  |
| Dehumid. Ov Sizing           |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.06       |  | 0.06       |  |
| Ov/Undr Sizing               |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 36,314.70  |  | 36,314.70  |  |
| Exhaust Heat                 |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.06       |  | 0.06       |  |
| Sup. Fan Heat                |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.06       |  | 0.06       |  |
| Ret. Fan Heat                |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.06       |  | 0.06       |  |
| Duct Heat PkUp               |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 341,046.53 |  | 341,046.53 |  |
| Reheat at Design             |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 0                              |  | 0                    |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 0       |  | 0.00       |  | -0.47      |  |
| Grand Total ==>              |  |              |  |                  |  |                   |  |                   |  | 0.00                                   |  | 0.00                   |  | 100.00                         |  | 100.00               |  | 0.00                     |  | 0.00                  |  | 0.00                 |  | 100.00  |  | 0          |  | 0          |  |
| COOLING COIL SELECTION       |  |              |  |                  |  |                   |  |                   |  | HEATING COIL SELECTION                 |  |                        |  |                                |  |                      |  |                          |  |                       |  |                      |  |         |  |            |  |            |  |
| Total Capacity kW            |  | Sens Cap. kW |  | Coil Airflow L/s |  | Enter DB/WB/HR °C |  | Leave DB/WB/HR °C |  | g/kg                                   |  | Gross Total            |  | Glass m²                       |  | Percent (%)          |  | Capacity kW              |  | Coil Airflow L/s      |  | Ent °C               |  | Lvg °C  |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 24.4              |  | 15.0              |  | 7.8                                    |  | 4                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 21.8                 |  | 29.0    |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 29                     |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  | 0.0                  |  | 0.0     |  |            |  |            |  |
| 0.00                         |  | 0.00         |  | 0                |  | 0.0               |  | 0.0               |  | 0.0                                    |  | 0                      |  | 0                              |  | 0                    |  | 0.0                      |  | 0                     |  |                      |  |         |  |            |  |            |  |







Room Checksums

By GOCSA

FC0209 31 AULA V 1/125

| COOLING COIL PEAK            |                    |                    |           | CLG SPACE PEAK                       |                |                  |                    | HEATING COIL PEAK              |                    |                  |      | TEMPERATURES    |         |         |     |
|------------------------------|--------------------|--------------------|-----------|--------------------------------------|----------------|------------------|--------------------|--------------------------------|--------------------|------------------|------|-----------------|---------|---------|-----|
| Peaked at Time: Outside Air: |                    |                    |           | Mo/Hr: 7 / 19 OADBWB/Hr: 30 / 17 / 8 |                |                  |                    | Mo/Hr: Heating Design OADB: -5 |                    |                  |      |                 |         |         |     |
| Envelope Loads               | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total                     | Space Sensible | Percent Of Total | Envelope Loads     | Space Peak Space Sens          | Coil Peak Tot Sens | Percent Of Total | SADB | Cooling         | Heating |         |     |
|                              | kW                 | kW                 | kW        | (%)                                  | kW             | (%)              |                    | kW                             | kW                 | (%)              |      | Plenum          |         |         |     |
| Skylite Solar                | 0.00               | 0.00               | 0.00      | 0                                    | 0.00           | 0                | Skylite Solar      | 0.00                           | 0.00               | 0                |      | 12.7            | 23.7    |         |     |
| Skylite Cond                 | 0.00               | 0.00               | 0.00      | 0                                    | 0.00           | 0                | Skylite Cond       | 0.00                           | 0.00               | 0                |      | 24.4            | 21.8    |         |     |
| Roof Cond                    | 0.00               | 0.00               | 0.00      | 0                                    | 0.00           | 0                | Roof Cond          | 0.00                           | 0.00               | 0                |      | 24.4            | 21.8    |         |     |
| Glass Solar                  | 1.46               | 0.00               | 1.46      | 28                                   | 1.62           | 40               | Glass Solar        | 0.00                           | 0.00               | 0                |      | 24.4            | 21.8    |         |     |
| Glass Cond                   | 0.09               | 0.00               | 0.09      | 2                                    | 0.03           | 1                | Glass Cond         | -0.29                          | -0.29              | 0                |      | 0.0             | 0.0     |         |     |
| Wall Cond                    | 0.06               | 0.01               | 0.07      | 1                                    | -0.03          | -1               | Wall Cond          | -0.30                          | -0.38              | 0                |      | 0.0             | 0.0     |         |     |
| Partition                    | 0.00               | 0.00               | 0.00      | 0                                    | 0.00           | 0                | Partition          | 0.00                           | 0.00               | 0                |      | 0.0             | 0.0     |         |     |
| Exposed Floor                | 0.00               | 0.00               | 0.00      | 0                                    | 0.00           | 0                | Exposed Floor      | 0.00                           | 0.00               | 0                |      | 0.0             | 0.0     |         |     |
| Infiltration                 | 0.00               | 0.00               | 0.00      | 0                                    | 0.00           | 0                | Infiltration       | 0.00                           | 0.00               | 0                |      | 0               | 0       |         |     |
| Sub Total ==>                | 1.61               | 0.01               | 1.62      | 31                                   | 1.62           | 40               | Sub Total ==>      | -0.59                          | -0.67              | 0                |      | 312             | 312     |         |     |
| Internal Loads               |                    |                    |           |                                      |                |                  | Internal Loads     |                                |                    |                  |      |                 |         |         |     |
| Lights                       | 0.23               | 0.06               | 0.29      | 6                                    | 0.23           | 6                | Lights             | 0.00                           | 0.00               | 0                |      | 0               | 0       |         |     |
| People                       | 2.64               | 0.00               | 2.64      | 50                                   | 1.46           | 36               | People             | 0.00                           | 0.00               | 0                |      | 0               | 0       |         |     |
| Misc                         | 0.70               | 0.00               | 0.70      | 13                                   | 0.70           | 17               | Misc               | 0.00                           | 0.00               | 0                |      | 0               | 0       |         |     |
| Sub Total ==>                | 3.57               | 0.06               | 3.63      | 69                                   | 2.39           | 59               | Sub Total ==>      | 0.00                           | 0.00               | 0                |      | 0               | 0       |         |     |
| Ceiling Load                 | 0.02               | -0.02              | 0.00      | 0                                    | 0.01           | 0                | Ceiling Load       | -0.01                          | 0                  | 0                |      |                 |         |         |     |
| Ventilation Load             | 0.00               | 0.00               | 0.00      | 0                                    | 0.00           | 0                | Ventilation Load   | 0.00                           | 0.00               | 0                |      |                 |         |         |     |
| Adj Air Trans Heat           | 0                  | 0.00               | 0         | 0                                    | 0              | 0                | Adj Air Trans Heat | 0                              | 0                  | 0                |      | 0.0             | 0.0     |         |     |
| Dehumid. Ov Sizing           |                    |                    | 0         | 0                                    |                |                  |                    |                                |                    |                  |      |                 |         |         |     |
| Ov/Undr Sizing               | 0.00               |                    | 0.00      | 0                                    | 0.00           | 0                | Ov/Undr Sizing     | 0.00                           | 0.00               | 0                |      |                 |         |         |     |
| Exhaust Heat                 |                    | 0.00               | 0.00      | 0                                    |                |                  | Exhaust Heat       | 0.00                           | 0.00               | 0                |      | 11.80           | 11.80   |         |     |
| Sup. Fan Heat                |                    | 0.00               | 0.00      | 0                                    |                |                  | OA Preheat Diff.   | 0.00                           | 0.00               | 0                |      | 59.42           |         |         |     |
| Ret. Fan Heat                |                    | 0.00               | 0.00      | 0                                    |                |                  | RA Preheat Diff.   | 0.00                           | 0.00               | 0                |      |                 |         |         |     |
| Duct Heat PkUp               |                    | 0.00               | 0.00      | 0                                    |                |                  | Additional Reheat  | 0.00                           | 0.00               | 0                |      | 5.03            |         |         |     |
| Reheat at Design             |                    | 0.00               | 0.00      | 0                                    |                |                  | System Plenum Heat | -0.03                          | -0.03              | 0                |      | 198.53          | -26.31  |         |     |
| Grand Total ==>              | 5.20               | 0.05               | 5.25      | 100.00                               | 4.02           | 100.00           | Grand Total ==>    | -0.60                          | -0.70              | 100.00           |      | No. People      | 20      |         |     |
|                              |                    |                    |           |                                      |                |                  |                    |                                |                    |                  |      | ENGINEERING CKS |         |         |     |
|                              |                    |                    |           |                                      |                |                  |                    |                                |                    |                  |      | % OA            | Cooling | Heating |     |
|                              |                    |                    |           |                                      |                |                  |                    |                                |                    |                  |      |                 | 0.0     |         | 0.0 |
|                              |                    |                    |           |                                      |                |                  |                    |                                |                    |                  |      | Lps/m²          | 11.80   |         |     |
|                              |                    |                    |           |                                      |                |                  |                    |                                |                    |                  |      | Lps/kW          | 59.42   |         |     |
|                              |                    |                    |           |                                      |                |                  |                    |                                |                    |                  |      | m²/kW           |         |         |     |
|                              |                    |                    |           |                                      |                |                  |                    |                                |                    |                  |      | W/m²            |         |         |     |



FC0209 32 V 2/1

| COOLING COIL PEAK                                   |  |  |  | CLG SPACE PEAK  |  |  |  | HEATING COIL PEAK  |  |  |  | TEMPERATURES                                    |  |  |  |
|---|--|--|--|---|--|--|--|--|--|--|--|---|--|--|--|
| Peaked at Time: Outside Air:                        |  |  |  | Mo/Hr: 7 / 15 OADBWB/Hr: 36 / 22 / 11   |  |  |  | Mo/Hr: Heating Design OADB: -5   |  |  |  | SADB Cooling Heating 22.5 21.8 21.8             |  |  |  |
| Sens. + Lat. Space Sens. + Lat. Plenum Sens. + Lat. |  |  |  | Net Total Of Total Space Sensible Percent   |  |  |  | Space Peak Tot Sens Space Sens Coil Peak Tot Sens Percent Of Total     |  |  |  | Plenum Return Ret/OA Fn MtrTD Fn BidTD Fn Frict |  |  |  |
| kW  |  |  |  | kW  |  |  |  | kW   |  |  |  | kW  |  |  |  |
| Envelope Loads                                      |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00                    |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Skylite Solar                                       |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00                    |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Skylite Cond  |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00                    |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Roof Cond   |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00                    |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Glass Solar   |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00                    |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Glass Cond  |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00                    |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Wall Cond   |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00                    |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Partition   |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00                    |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Exposed Floor                                       |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00                    |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Infiltration  |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00                    |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Sub Total ==>                                       |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00                    |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Internal Loads                                      |  |  |  | 0.39 0.10 0.49 0.10 0.39 0.62 0.37 0.58 0.39 0.62 0.37 0.58 0.39 0.62 0.37 0.58               |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Lights  |  |  |  | 0.39 0.10 0.49 0.10 0.39 0.62 0.37 0.58 0.39 0.62 0.37 0.58 0.39 0.62 0.37 0.58               |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| People  |  |  |  | 1.14 0.00 1.14 0.00 1.14 0.00 0.00 0.00 1.14 0.00 0.00 0.00 1.14 0.00 0.00 0.00               |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Misc  |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00               |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Sub Total ==>                                       |  |  |  | 1.53 0.10 1.63 0.10 1.63 1.01 0.95 0.95 1.63 1.01 0.95 0.95 1.63 1.01 0.95 0.95               |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Ceiling Load  |  |  |  | 0.04 -0.04 0.00 0.00 0.04 -0.04 0.00 0.00 0.04 -0.04 0.00 0.00 0.04 -0.04 0.00 0.00           |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Ventilation Load                                    |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00               |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Adj Air Trans Heat                                  |  |  |  | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Dehumid. Ov Sizing                                  |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00               |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| OvUndr Sizing                                       |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00               |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Exhaust Heat  |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00               |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Sup. Fan Heat                                       |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00               |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Ret. Fan Heat                                       |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00               |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Duct Heat PkUp                                      |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00               |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00  |  |  |  |   |  |  |  |
| Reheat at Design                                    |  |  |  | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00               |  |  |  | -0.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |  |  |  |   |  |  |  |
| Grand Total ==>                                     |  |  |  | 1.57 0.06 1.63 0.06 1.63 1.06 100.00 100.00 1.06 1.06 100.00 100.00 -0.03 -0.05 100.00 100.00 |  |  |  |  |  |  |  |   |  |  |  |
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Room Checksums

By GOCSA

FC0209 33 LIMPIEZA EX 4/25

| COOLING COIL PEAK               |  |       |  |  |  |           |  |                          |  | CLG SPACE PEAK |  |                                   |  | HEATING COIL PEAK     |  |                    |  | TEMPERATURES     |  |            |  |  |  |
|---------------------------------|--|-------|--|--|--|-----------|--|--------------------------|--|----------------|--|-----------------------------------|--|-----------------------|--|--------------------|--|------------------|--|------------|--|--|--|
| Peaked at Time:<br>Outside Air: |  |       |  | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |  |           |  | Mo/Hr: 7 / 2<br>OADB: 19 |  |                |  | Mo/Hr: Heating Design<br>OADB: -5 |  |                       |  | SADB               |  | Cooling          |  | Heating    |  |  |  |
| Sens. + Lat.                    |  | Space |  | Plenum                                   |  | Net Total |  | Percent Of Total         |  | Space Sensible |  | Percent Of Total                  |  | Space Peak Space Sens |  | Coil Peak Tot Sens |  | Percent Of Total |  | Return     |  |  |  |
| kW                              |  | kW    |  | kW                                       |  | kW        |  | %                        |  | kW             |  | %                                 |  | kW                    |  | kW                 |  | %                |  | 24.4       |  |  |  |
| kW                              |  | kW    |  | kW                                       |  | kW        |  | %                        |  | kW             |  | %                                 |  | kW                    |  | kW                 |  | %                |  | 21.8       |  |  |  |
| Envelope Loads                  |  |       |  | Envelope Loads                           |  |           |  | Envelope Loads           |  |                |  | Envelope Loads                    |  |                       |  | Envelope Loads     |  |                  |  | Fn MtrTD   |  |  |  |
| Skylite Solar                   |  |       |  | Skylite Solar                            |  |           |  | Skylite Solar            |  |                |  | Skylite Solar                     |  |                       |  | Skylite Solar      |  |                  |  | 0.0        |  |  |  |
| Skylite Cond                    |  |       |  | Skylite Cond                             |  |           |  | Skylite Cond             |  |                |  | Skylite Cond                      |  |                       |  | Skylite Cond       |  |                  |  | 0.0        |  |  |  |
| Roof Cond                       |  |       |  | Roof Cond                                |  |           |  | Roof Cond                |  |                |  | Roof Cond                         |  |                       |  | Roof Cond          |  |                  |  | 0.0        |  |  |  |
| Glass Solar                     |  |       |  | Glass Solar                              |  |           |  | Glass Solar              |  |                |  | Glass Solar                       |  |                       |  | Glass Solar        |  |                  |  | 0.0        |  |  |  |
| Glass Cond                      |  |       |  | Glass Cond                               |  |           |  | Glass Cond               |  |                |  | Glass Cond                        |  |                       |  | Glass Cond         |  |                  |  | 0.0        |  |  |  |
| Wall Cond                       |  |       |  | Wall Cond                                |  |           |  | Wall Cond                |  |                |  | Wall Cond                         |  |                       |  | Wall Cond          |  |                  |  | 0.0        |  |  |  |
| Partition                       |  |       |  | Partition                                |  |           |  | Partition                |  |                |  | Partition                         |  |                       |  | Partition          |  |                  |  | 0.0        |  |  |  |
| Exposed Floor                   |  |       |  | Exposed Floor                            |  |           |  | Exposed Floor            |  |                |  | Exposed Floor                     |  |                       |  | Exposed Floor      |  |                  |  | 0.0        |  |  |  |
| Infiltration                    |  |       |  | Infiltration                             |  |           |  | Infiltration             |  |                |  | Infiltration                      |  |                       |  | Infiltration       |  |                  |  | 0.0        |  |  |  |
| Sub Total ==>                   |  |       |  | Sub Total ==>                            |  |           |  | Sub Total ==>            |  |                |  | Sub Total ==>                     |  |                       |  | Sub Total ==>      |  |                  |  | 0.0        |  |  |  |
| Internal Loads                  |  |       |  | Internal Loads                           |  |           |  | Internal Loads           |  |                |  | Internal Loads                    |  |                       |  | Internal Loads     |  |                  |  | Vent       |  |  |  |
| Lights                          |  |       |  | Lights                                   |  |           |  | Lights                   |  |                |  | Lights                            |  |                       |  | Lights             |  |                  |  | 0          |  |  |  |
| People                          |  |       |  | People                                   |  |           |  | People                   |  |                |  | People                            |  |                       |  | People             |  |                  |  | 0          |  |  |  |
| Misc                            |  |       |  | Misc                                     |  |           |  | Misc                     |  |                |  | Misc                              |  |                       |  | Misc               |  |                  |  | 0          |  |  |  |
| Sub Total ==>                   |  |       |  | Sub Total ==>                            |  |           |  | Sub Total ==>            |  |                |  | Sub Total ==>                     |  |                       |  | Sub Total ==>      |  |                  |  | Supply     |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | MinStop/Rh |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | Return     |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | Exhaust    |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | Rm Exh     |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | Auxil      |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |
|                                 |  |       |  |  |  |           |  |                          |  |                |  |                                   |  |                       |  |                    |  |                  |  | 0          |  |  |  |



## Room Checksums

By GOCSA

## FC0209 34 INSTALACIONES EX 4/50

[illegible]



Room Checksums

By GOCSA

FC0209 35 ESPERA CAMAS V 2/1

| COOLING COIL PEAK            |                    |                    |           | CLG SPACE PEAK                       |                |                  |                       | HEATING COIL PEAK              |                  |          |         | TEMPERATURES |         |       |  |
|------------------------------|--------------------|--------------------|-----------|--------------------------------------|----------------|------------------|-----------------------|--------------------------------|------------------|----------|---------|--------------|---------|-------|--|
| Peaked at Time: Outside Air: |                    |                    |           | Mo/Hr: 7 / 24 OADBWB/Hr: 21 / 11 / 5 |                |                  |                       | Mo/Hr: Heating Design OADB: -5 |                  |          |         |              |         |       |  |
| Envelope Loads               | Space Sens. + Lat. | Plenum Sens. + Lat | Net Total | Percent Of Total                     | Space Sensible | Percent Of Total | Space Peak Space Sens | Coil Peak Tot Sens             | Percent Of Total | SADB     | Cooling | Heating      |         |       |  |
|                              | kW                 | kW                 | kW        | (%)                                  | kW             | (%)              | kW                    | kW                             | (%)              | Plenum   | 13.9    | 23.9         |         |       |  |
|                              | 0.00               | 0.00               | 0.00      | 0                                    | 0.00           | 0                | 0.00                  | 0.00                           | 0                | Return   | 24.4    | 21.8         |         |       |  |
|                              | 0.00               | 0.00               | 0.34      | 11                                   | 0.00           | 0                | 0.00                  | -0.53                          | 0                | Ret/OA   | 24.4    | 21.8         |         |       |  |
|                              | 0.00               | 0.00               | 0.00      | 0                                    | 0.00           | 0                | 0.00                  | 0.00                           | 0                | Fn MtrTD | 0.0     | 0.0          |         |       |  |
|                              | 0.00               | 0.00               | 0.00      | 0                                    | 0.00           | 0                | 0.00                  | 0.00                           | 0                | Fn BidTD | 0.0     | 0.0          |         |       |  |
|                              | 0.08               | 0.01               | 0.09      | 3                                    | 0.08           | 4                | -0.21                 | 0.00                           | 0                | Fn Frict | 0.0     | 0.0          |         |       |  |
|                              | 0.03               |                    | 0.03      | 1                                    | 0.04           | 2                | -0.18                 | 0.00                           | 0                |          |         |              |         |       |  |
|                              | 0.00               |                    | 0.00      | 0                                    | 0.00           | 0                | 0.00                  | -0.18                          | 0                |          |         |              |         |       |  |
|                              | 0.00               |                    | 0.00      | 0                                    | 0.00           | 0                | 0.00                  | 0.00                           | 0                |          |         |              |         |       |  |
|                              | 0.11               | 0.35               | 0.46      | 15                                   | 0.12           | 6                | -0.39                 | -0.96                          | 0                |          |         |              |         |       |  |
|                              | 0.45               | 0.11               | 0.56      | 19                                   | 0.45           | 21               | 0.00                  | 0.00                           | 0                | Vent     | 0       | 0            | Heating |       |  |
| 0.98                         |                    | 0.98               | 33        | 0.53                                 | 25             | 0.00             | 0.00                  | 0                              | Infil            | 0        | 0       | 0            |         |       |  |
| 1.00                         | 0.00               | 1.00               | 33        | 1.00                                 | 47             | 0.00             | 0.00                  | 0                              | Supply           | 185      | 185     | 0            |         |       |  |
| 2.43                         | 0.11               | 2.54               | 85        | 1.98                                 | 93             | 0.00             | 0.00                  | 0                              | MinStop/Rh       | 0        | 0       | 0            |         |       |  |
| Internal Loads               |                    |                    |           | Internal Loads                       |                |                  |                       | Return                         |                  |          |         | 185          | 185     | 0     |  |
| Lights                       |                    |                    |           |                                      |                |                  | 0.00                  | 0.00                           | 0                | Exhaust  | 0       | 0            | 0       |       |  |
| People                       |                    |                    |           |                                      |                |                  | 0.00                  | 0.00                           | 0                | Rm Exh   | 0       | 0            | 0       |       |  |
| Misc                         |                    |                    |           |                                      |                |                  | 0.00                  | 0.00                           | 0                | Auxil    | 0       | 0            | 0       |       |  |
| Sub Total ==>                |                    |                    |           | Sub Total ==>                        |                |                  |                       |                                |                  |          |         |              |         |       |  |
| Ceiling Load                 |                    |                    |           | Ceiling Load                         |                |                  |                       | 0                              |                  |          |         |              |         |       |  |
| Ventilation Load             |                    |                    |           | Ventilation Load                     |                |                  |                       | 0.00                           |                  |          |         |              |         |       |  |
| Adj Air Trans Heat           |                    |                    |           | Adj Air Trans Heat                   |                |                  |                       | 0                              |                  |          |         | % OA         | 0.0     | 0.0   |  |
| Dehumid. Ov Sizing           |                    |                    |           | Ov/Undr Sizing                       |                |                  |                       | 0.00                           |                  |          |         | Lps/m²       | 3.61    | 3.61  |  |
| Ov/Undr Sizing               |                    |                    |           | Exhaust Heat                         |                |                  |                       | 0.00                           |                  |          |         | Lps/kW       | 61.46   |       |  |
| Exhaust Heat                 |                    |                    |           | OA Preheat Diff.                     |                |                  |                       | 0.00                           |                  |          |         | m²/kW        | 17.01   |       |  |
| Sup. Fan Heat                |                    |                    |           | RA Preheat Diff.                     |                |                  |                       | 0.00                           |                  |          |         | W/m²         | 58.75   | -8.97 |  |
| Ret. Fan Heat                |                    |                    |           | Additional Reheat                    |                |                  |                       | 0.00                           |                  |          |         |              |         |       |  |
| Duct Heat Pkup               |                    |                    |           | System Plenum Heat                   |                |                  |                       | 0.49                           |                  |          |         |              |         |       |  |
| Reheat at Design             |                    |                    |           | Grand Total ==>                      |                |                  |                       | -0.41                          |                  |          |         | No. People   | 6       |       |  |
| Grand Total ==>              |                    |                    |           | Grand Total ==>                      |                |                  |                       | -0.47                          |                  |          |         |              |         |       |  |

| TEMPERATURES |      |         |      |
|--------------|------|---------|------|
| SADB         | 13.9 | Cooling | 23.9 |
| Plenum       | 24.4 | Heating | 21.8 |
| Return       | 24.4 |         | 21.8 |
| Ret/OA       | 24.4 |         | 21.8 |
| Fn MtrTD     | 0.0  |         | 0.0  |
| Fn BidTD     | 0.0  |         | 0.0  |
| Fn Frict     | 0.0  |         | 0.0  |

| AIRFLOWS   |     |         |     |
|------------|-----|---------|-----|
| Vent       | 0   | Cooling | 0   |
| Infil      | 0   | Heating | 0   |
| Supply     | 185 |         | 185 |
| MinStop/Rh | 0   |         | 0   |
| Return     | 185 |         | 185 |
| Exhaust    | 0   |         | 0   |
| Rm Exh     | 0   |         | 0   |
| Auxil      | 0   |         | 0   |

| ENGINEERING CKS |       |         |       |
|-----------------|-------|---------|-------|
| % OA            | 0.0   | Cooling | 0.0   |
| Lps/m²          | 3.61  | Heating | 0.0   |
| Lps/kW          | 61.46 |         | 3.61  |
| m²/kW           | 17.01 |         |       |
| W/m²            | 58.75 |         | -8.97 |
| No. People      | 6     |         |       |

| COOLING COIL SELECTION |           |              |                |                |
|------------------------|-----------|--------------|----------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR | Leave DB/WB/HR |
| kW                     | kW        | L/s          | °C g/kg        | °C g/kg        |
| Main Clg               | 3.01      | 185          | 17.0 10.1      | 13.9 11.9      |
| Aux Clg                | 0.00      | 0            | 0.0 0.0        | 0.0 0.0        |
| Opt Vent               | 0.00      | 0            | 0.0 0.0        | 0.0 0.0        |
| Total                  | 3.01      |              |                |                |

| AREAS       |    | Glass |   |
|-------------|----|-------|---|
| Gross Total | m² | (%)   |   |
| Floor       | 51 |       |   |
| Part        | 74 |       |   |
| ExFlr       | 0  |       |   |
| Roof        | 51 | 0     | 0 |
| Wall        | 21 | 0     | 0 |

| HEATING COIL SELECTION |              |     |      |
|------------------------|--------------|-----|------|
| Capacity               | Coil Airflow | Ent | Lvg  |
| kW                     | L/s          | °C  | °C   |
| Main Htg               | -0.5         | 185 | 21.8 |
| Aux Htg                | 0.0          | 0   | 0.0  |
| Preheat                | 0.0          | 0   | 0.0  |
| Humidif                | 0.0          | 0   | 0.0  |
| Opt Vent               | 0.0          | 0   | 0.0  |
| Total                  | -0.5         |     |      |



Room Checksums

By GOCSA

FC0209 36 VESTUARIO PERSONAL V 5/13

| COOLING COIL PEAK               |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK            |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK |  |  |  |  |         |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|-----------------------------------|--|--|--|--|-------------------|--|--|--|--|---------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 14<br>OADBWB/HR: 36 / 21 / 11 |  |  |  |  | Mo/Hr: 7 / 14<br>OADB: 36 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB              |  |  |  |  | Cooling |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Plenum            |  |  |  |  | 24.4    |  |  |  |  | 21.8         |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Return            |  |  |  |  | 24.4    |  |  |  |  | 21.8         |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Ret/OA            |  |  |  |  | 24.4    |  |  |  |  | 21.8         |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Fn MtrTD          |  |  |  |  | 0.0     |  |  |  |  | 0.0          |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Fn BldTD          |  |  |  |  | 0.0     |  |  |  |  | 0.0          |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  | Fn Frict          |  |  |  |  | 0.0     |  |  |  |  | 0.0          |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |                                   |  |  |  |  |                   |  |  |  |  |         |  |  |  |  |              |  |  |  |  |  |  |  |  |  |



Room Checksums

By GOCSA

FC0209 37 VESTUARIO PERSONAL V 5/13

| COOLING COIL PEAK               |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK           |  |  |  |  | HEATING COIL PEAK                 |  |  |  |  | TEMPERATURES        |  |  |  |  |                          |  |  |  |  |                       |  |  |  |  |                     |  |  |  |  |                |  |  |  |  |    |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |   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| Space<br>Sens. + Lat.           |  |  |  |  | Plenum<br>Sens. + Lat                    |  |  |  |  | Net<br>Total             |  |  |  |  | Space<br>Sensible                 |  |  |  |  | Percent<br>Of Total |  |  |  |  | Space Peak<br>Space Sens |  |  |  |  | Coil Peak<br>Tot Sens |  |  |  |  | Percent<br>Of Total |  |  |  |  |                |  |  |  |  |    |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |       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| kW                              |  |  |  |  | kW                                       |  |  |  |  | kW                       |  |  |  |  | kW                                |  |  |  |  | %                   |  |  |  |  | kW                       |  |  |  |  | kW                    |  |  |  |  | %                   |  |  |  |  | kW             |  |  |  |  | kW |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |       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| Envelope Loads                  |  |  |  |  |  |  |  |  |  | Envelope Loads           |  |  |  |  |                                   |  |  |  |  | Envelope Loads      |  |  |  |  |                          |  |  |  |  | Envelope Loads        |  |  |  |  |                     |  |  |  |  | Envelope Loads |  |  |  |  |    |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  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| Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  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|  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  | Envelope Loads |  |  |  |  |  |  |  |  |  |



## Room Checksums

By GOCSA

FC0209 38 ASEOS VEST EX 4/150

| COOLING COIL PEAK               |  |                       |  |   |  |                     |  |                          |  | CLG SPACE PEAK      |  |                                   |  | HEATING COIL PEAK     |  |                     |  | TEMPERATURES |  |         |  |  |  |
|---------------------------------|--|-----------------------|--|---|--|---------------------|--|--------------------------|--|---------------------|--|-----------------------------------|--|-----------------------|--|---------------------|--|--------------|--|---------|--|--|--|
| Peaked at Time:<br>Outside Air: |  |                       |  | Mo/Hr: 7 / 15<br>OADB/WB/HR: 36 / 22 / 11 |  |                     |  | Mo/Hr: 7 / 2<br>OADB: 19 |  |                     |  | Mo/Hr: Heating Design<br>OADB: -5 |  |                       |  | SADB                |  | Cooling      |  | Heating |  |  |  |
| Space<br>Sens. + Lat.           |  | Plenum<br>Sens. + Lat |  | Net<br>Total                              |  | Percent<br>Of Total |  | Space<br>Sensible        |  | Percent<br>Of Total |  | Space Peak<br>Space Sens          |  | Coil Peak<br>Tot Sens |  | Percent<br>Of Total |  |              |  |         |  |  |  |
| kW                              |  | kW                    |  | kW  |  | %                   |  | kW                       |  | %                   |  | kW                                |  | kW                    |  | %                   |  |              |  |         |  |  |  |
| Envelope Loads                  |  |                       |  |   |  |                     |  |                          |  | Envelope Loads      |  |                                   |  |                       |  |                     |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  | 0.00                     |  | 0                   |  | 0.00                              |  | 0.00                  |  | 0                   |  |              |  |         |  |  |  |
| 0.00                            |  | 0.00                  |  | 0.00                                      |  | 0                   |  |                          |  |                     |  |                                   |  |                       |  |                     |  |              |  |         |  |  |  |



Room Checksums

By GOCSA

FC0209 39 ASEOS VEST EX 4/150

| COOLING COIL PEAK            |       |              |       | CLG SPACE PEAK                   |          |          |                    | HEATING COIL PEAK              |          |       |          |
|------------------------------|-------|--------------|-------|----------------------------------|----------|----------|--------------------|--------------------------------|----------|-------|----------|
| Peaked at Time: Outside Air: |       |              |       | Mo/Hr: 7 / 15 OADB: 36 / 22 / 11 |          |          |                    | Mo/Hr: Heating Design OADB: -5 |          |       |          |
| Sens. + Lat.                 | Space | Plenum       | Net   | Percent                          | Space    | Percent  | Envelope Loads     | Space                          | Percent  | Space | Percent  |
|                              |       |              |       |                                  |          |          |                    |                                |          |       |          |
| Sens. + Lat.                 | Space | Sens. + Lat. | Total | Of Total                         | Sensible | Of Total |                    | Space                          | Of Total | Space | Of Total |
| kW                           | kW    | kW           | kW    | (%)                              | kW       | (%)      |                    | kW                             | (%)      | kW    | (%)      |
| Envelope Loads               |       |              |       |                                  |          |          |                    |                                |          |       |          |
| Skylite Solar                | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Skylite Solar      | 0.00                           | 0.00     | 0.00  | 0        |
| Skylite Cond                 | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Skylite Cond       | 0.00                           | 0.00     | 0.00  | 0        |
| Roof Cond                    | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Roof Cond          | 0.00                           | 0.00     | 0.00  | 0        |
| Glass Solar                  | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Glass Solar        | 0.00                           | 0.00     | 0.00  | 0        |
| Glass Cond                   | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Glass Cond         | 0.00                           | 0.00     | 0.00  | 0        |
| Wall Cond                    | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Wall Cond          | 0.00                           | 0.00     | 0.00  | 0        |
| Partition                    | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Partition          | 0.00                           | 0.00     | 0.00  | 0        |
| Exposed Floor                | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Exposed Floor      | 0.00                           | 0.00     | 0.00  | 0        |
| Infiltration                 | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Infiltration       | 0.00                           | 0.00     | 0.00  | 0        |
| Sub Total ==>                | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Sub Total ==>      | 0.00                           | 0.00     | 0.00  | 0        |
| Internal Loads               |       |              |       |                                  |          |          |                    |                                |          |       |          |
| Lights                       | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Lights             | 0.00                           | 0.00     | 0.00  | 0        |
| People                       | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | People             | 0.00                           | 0.00     | 0.00  | 0        |
| Misc                         | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Misc               | 0.00                           | 0.00     | 0.00  | 0        |
| Sub Total ==>                | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Sub Total ==>      | 0.00                           | 0.00     | 0.00  | 0        |
| Ceiling Load                 |       |              |       |                                  |          |          |                    |                                |          |       |          |
| Ventilation Load             | 0.00  | 0.00         | 0.00  | 0                                | 0.01     | 0        | Ceiling Load       | 0.00                           | 0.00     | 0     | 0        |
| Adj Air Trans Heat           | 0     | 0.00         | 0.00  | 0                                | 0.00     | 0        | Ventilation Load   | 0.00                           | 0.00     | 0.00  | 0        |
| Dehumid. Ov Sizing           | 0.00  | 0.00         | 0.00  | 0                                | 0        | 0        | Adj Air Trans Heat | 0                              | 0        | 0     | 0        |
| OvUndr Sizing                | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | OvUndr Sizing      | 0.00                           | 0.00     | 0.00  | 0        |
| Exhaust Heat                 | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Exhaust Heat       | 0.00                           | 0.00     | 0.00  | 0        |
| Sup. Fan Heat                | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | OA Preheat Diff.   | 0.00                           | 0.00     | 0.00  | 0        |
| Ret. Fan Heat                | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | RA Preheat Diff.   | 0.00                           | 0.00     | 0.00  | 0        |
| Duct Heat PkUp               | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | Additional Reheat  | 0.00                           | 0.00     | 0.00  | 0        |
| Reheat at Design             | 0.00  | 0.00         | 0.00  | 0                                | 0.00     | 0        | System Plenum Heat | 0.00                           | 0.00     | 0.00  | 0        |
| Grand Total ==>              | 0.00  | 0.00         | 0.00  | 100.00                           | 0.01     | 100.00   | Grand Total ==>    | 0.00                           | 0.00     | 0.00  | 100.00   |

| TEMPERATURES |         |         |  |
|--------------|---------|---------|--|
| SADB         | Cooling | Heating |  |
| Plenum       | 12.8    | 29.0    |  |
| Return       | 24.4    | 21.8    |  |
| Ret/OA       | 24.4    | 21.8    |  |
| Fn MtrTD     | 0.0     | 0.0     |  |
| Fn BidTD     | 0.0     | 0.0     |  |
| Fn Frict     | 0.0     | 0.0     |  |

| AIRFLOWS   |         |         |  |
|------------|---------|---------|--|
| Vent       | Cooling | Heating |  |
| Infil      | 0       | 0       |  |
| Supply     | 0       | 0       |  |
| MinStop/Rh | 0       | 0       |  |
| Return     | 0       | 0       |  |
| Exhaust    | 0       | 0       |  |
| Rm Exh     | 0       | 0       |  |
| Auxil      | 0       | 0       |  |

| ENGINEERING CKS |            |         |  |
|-----------------|------------|---------|--|
| % OA            | Cooling    | Heating |  |
| Lps/m²          | 0.0        | 0.06    |  |
| Lps/kW          | 0.06       | 0.06    |  |
| m²/kW           | 65,262.88  |         |  |
| W/m²            | 151,121.20 |         |  |
| No. People      | 0.00       | -0.47   |  |

| COOLING COIL SELECTION |           |              |                |
|------------------------|-----------|--------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR |
| kW                     | kW        | L/s          | °C °C g/kg     |
| Main Clg               | 0.00      | 0            | 24.4 15.1 7.9  |
| Aux Clg                | 0.00      | 0            | 0.0 0.0 0.0    |
| Opt Vent               | 0.00      | 0            | 0.0 0.0 0.0    |
| Total                  | 0.00      |              |                |

| HEATING COIL SELECTION |              |     |           |
|------------------------|--------------|-----|-----------|
| Capacity               | Coil Airflow | Ent | Lvg       |
| kW                     | L/s          | °C  | °C        |
| Main Htg               | 0.0          | 0   | 21.8 29.0 |
| Aux Htg                | 0.0          | 0   | 0.0 0.0   |
| Preheat                | 0.0          | 0   | 0.0 0.0   |
| Humidif                | 0.0          | 0   | 0.0 0.0   |
| Opt Vent               | 0.0          | 0   | 0.0 0.0   |
| Total                  | 0.0          |     |           |

| AREAS       |       |   |     |
|-------------|-------|---|-----|
| Gross Total | Glass |   | (%) |
|             | m²    |   |     |
| Floor       | 8     |   |     |
| Part        | 37    |   |     |
| ExFlr       | 0     |   |     |
| Roof        | 0     | 0 | 0   |
| Wall        | 0     | 0 | 0   |



Room Checksums

By GOCSA

FC0209 40 DISPENSACION LENCERI V 4/30

| COOLING COIL PEAK               |  |  |  |  |  |  |  |  |  | CLG SPACE PEAK           |  |  |  |  |                                   |  |  |  |  | HEATING COIL PEAK |  |  |  |  |           |  |  |  |  | TEMPERATURES     |  |  |  |  |        |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|--------------------------|--|--|--|--|-----------------------------------|--|--|--|--|-------------------|--|--|--|--|-----------|--|--|--|--|------------------|--|--|--|--|--------|--|--|--|--|
| Peaked at Time:<br>Outside Air: |  |  |  |  | Mo/Hr: 7 / 15<br>OADBWB/HR: 36 / 22 / 11 |  |  |  |  | Mo/Hr: 7 / 2<br>OADB: 19 |  |  |  |  | Mo/Hr: Heating Design<br>OADB: -5 |  |  |  |  | SADB              |  |  |  |  | Cooling   |  |  |  |  | Heating          |  |  |  |  |        |  |  |  |  |
| Sens. + Lat.                    |  |  |  |  | Plenum                                   |  |  |  |  | Net Total                |  |  |  |  | Percent Of Total                  |  |  |  |  | Space Peak        |  |  |  |  | Coil Peak |  |  |  |  | Percent Of Total |  |  |  |  |        |  |  |  |  |
| kW                              |  |  |  |  | kW                                       |  |  |  |  | kW                       |  |  |  |  | %                                 |  |  |  |  | kW                |  |  |  |  | kW        |  |  |  |  | %                |  |  |  |  |        |  |  |  |  |
| Envelope Loads                  |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Envelope Loads    |  |  |  |  |           |  |  |  |  |                  |  |  |  |  |        |  |  |  |  |
| Skylite Solar                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Skylite Cond                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Roof Cond                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Glass Solar                     |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Glass Cond                      |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Wall Cond                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Partition                       |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Exposed Floor                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Infiltration                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Internal Loads                  |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |                                   |  |  |  |  | Internal Loads    |  |  |  |  |           |  |  |  |  |                  |  |  |  |  |        |  |  |  |  |
| Lights                          |  |  |  |  | 0.14                                     |  |  |  |  | 0.18                     |  |  |  |  | 0                                 |  |  |  |  | 0.14              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| People                          |  |  |  |  | 0.21                                     |  |  |  |  | 0.21                     |  |  |  |  | 0                                 |  |  |  |  | 0.11              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Misc                            |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Sub Total ==>                   |  |  |  |  | 0.35                                     |  |  |  |  | 0.39                     |  |  |  |  | 0                                 |  |  |  |  | 0.25              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Ceiling Load                    |  |  |  |  | 0.02                                     |  |  |  |  | -0.02                    |  |  |  |  | 0.00                              |  |  |  |  | 0.02              |  |  |  |  | -0.01     |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Ventilation Load                |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Adj Air Trans Heat              |  |  |  |  | 0  |  |  |  |  | 0                        |  |  |  |  | 0                                 |  |  |  |  | 0                 |  |  |  |  | 0         |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Dehumid. Ov Sizing              |  |  |  |  | 0.00                                     |  |  |  |  | 0                        |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Ov/Undr Sizing                  |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0.00                              |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Exhaust Heat                    |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Sup. Fan Heat                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Ret. Fan Heat                   |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Duct Heat Pkup                  |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | 0.00              |  |  |  |  | 0.00      |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Reheat at Design                |  |  |  |  | 0.00                                     |  |  |  |  | 0.00                     |  |  |  |  | 0                                 |  |  |  |  | -0.02             |  |  |  |  | -0.02     |  |  |  |  | 0                |  |  |  |  |        |  |  |  |  |
| Grand Total ==>                 |  |  |  |  | 0.37                                     |  |  |  |  | 0.02                     |  |  |  |  | 0.39                              |  |  |  |  | 100.00            |  |  |  |  | -0.01     |  |  |  |  | -0.02            |  |  |  |  | 100.00 |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |          |  |  |  |  |              |  |  |  |  |       |  |  |  |  |      |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|----------|--|--|--|--|--------------|--|--|--|--|-------|--|--|--|--|------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Capacity |  |  |  |  | Coil Airflow |  |  |  |  | Lvg   |  |  |  |  |      |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | kW       |  |  |  |  | L/s          |  |  |  |  | °C    |  |  |  |  |      |  |  |  |  |
| Main Clg               |  |  |  |  | 0.39      |  |  |  |  | 0.29                   |  |  |  |  | 20       |  |  |  |  | 0.0          |  |  |  |  | 20    |  |  |  |  | 21.8 |  |  |  |  |
| Aux Clg                |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0     |  |  |  |  | 0.0  |  |  |  |  |
| Opt Vent               |  |  |  |  | 0.00      |  |  |  |  | 0.00                   |  |  |  |  | 0        |  |  |  |  | 0.0          |  |  |  |  | 0     |  |  |  |  | 0.0  |  |  |  |  |
| Total                  |  |  |  |  | 0.39      |  |  |  |  |                        |  |  |  |  |          |  |  |  |  |              |  |  |  |  | Total |  |  |  |  |      |  |  |  |  |



## Room Checksums

By GOC SA

FC0209 41 DESPACHO SUPERVISOR V 1/125

[illegible]



Room Checksums

By GOCSA

FC0209 42 DESPACHO V 1/125

| COOLING COIL PEAK  |  |  |  |  |                         |  |  |  |  | CLG SPACE PEAK     |  |  |  |  |                       |  |  |  |  | HEATING COIL PEAK |  |  |  |  |           |  |  |  |  | TEMPERATURES |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|-------------------------|--|--|--|--|--------------------|--|--|--|--|-----------------------|--|--|--|--|-------------------|--|--|--|--|-----------|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|--|--|--|--|--|
| Peaked at Time:    |  |  |  |  | Mo/Hr: 7 / 15           |  |  |  |  | Mo/Hr: 7 / 2       |  |  |  |  | Mo/Hr: Heating Design |  |  |  |  | SADB              |  |  |  |  | Cooling   |  |  |  |  | Heating      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Outside Air:       |  |  |  |  | OADBWB/HR: 36 / 22 / 11 |  |  |  |  | OADB: 19           |  |  |  |  | OADB: -5              |  |  |  |  | Plenum            |  |  |  |  | 24.1      |  |  |  |  | 22.1         |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Plenum                  |  |  |  |  | Net                |  |  |  |  | Space                 |  |  |  |  | Space Peak        |  |  |  |  | Coil Peak |  |  |  |  | Percent      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | Total              |  |  |  |  | Sensible              |  |  |  |  | Space Sens        |  |  |  |  | Tot Sens  |  |  |  |  | Of Total     |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Sens. + Lat.       |  |  |  |  | Sens. + Lat.            |  |  |  |  | kW                 |  |  |  |  | kW                    |  |  |  |  | kW                |  |  |  |  | kW        |  |  |  |  | %            |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Envelope Loads     |  |  |  |  |                         |  |  |  |  | Envelope Loads     |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Solar      |  |  |  |  |                         |  |  |  |  | Skylite Solar      |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Skylite Cond       |  |  |  |  |                         |  |  |  |  | Skylite Cond       |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Roof Cond          |  |  |  |  |                         |  |  |  |  | Roof Cond          |  |  |  |  |                       |  |  |  |  | 0.00              |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Glass Solar        |  |  |  |  |                         |  |  |  |  | Glass Solar        |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Glass Cond         |  |  |  |  |                         |  |  |  |  | Glass Cond         |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Wall Cond          |  |  |  |  |                         |  |  |  |  | Wall Cond          |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Partition          |  |  |  |  |                         |  |  |  |  | Partition          |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Exposed Floor      |  |  |  |  |                         |  |  |  |  | Exposed Floor      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Infiltration       |  |  |  |  |                         |  |  |  |  | Infiltration       |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Internal Loads     |  |  |  |  |                         |  |  |  |  | Internal Loads     |  |  |  |  |                       |  |  |  |  |                   |  |  |  |  |           |  |  |  |  |              |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Lights             |  |  |  |  |                         |  |  |  |  | Lights             |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| People             |  |  |  |  |                         |  |  |  |  | People             |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Misc               |  |  |  |  |                         |  |  |  |  | Misc               |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Sub Total ==>      |  |  |  |  |                         |  |  |  |  | Sub Total ==>      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Ceiling Load       |  |  |  |  |                         |  |  |  |  | Ceiling Load       |  |  |  |  |                       |  |  |  |  | -0.01             |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Ventilation Load   |  |  |  |  |                         |  |  |  |  | Ventilation Load   |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Adj Air Trans Heat |  |  |  |  |                         |  |  |  |  | Adj Air Trans Heat |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0            |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |
| Dehumid. Ov Sizing |  |  |  |  |                         |  |  |  |  | Dehumid. Ov Sizing |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Ov/Undr Sizing     |  |  |  |  |                         |  |  |  |  | Ov/Undr Sizing     |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Exhaust Heat       |  |  |  |  |                         |  |  |  |  | Exhaust Heat       |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Sup. Fan Heat      |  |  |  |  |                         |  |  |  |  | Sup. Fan Heat      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Ret. Fan Heat      |  |  |  |  |                         |  |  |  |  | Ret. Fan Heat      |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Duct Heat Pkup     |  |  |  |  |                         |  |  |  |  | Duct Heat Pkup     |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | 0.00         |  |  |  |  |  |  |  |  |  | 0.00   |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Reheat at Design   |  |  |  |  |                         |  |  |  |  | Reheat at Design   |  |  |  |  |                       |  |  |  |  | 0                 |  |  |  |  |           |  |  |  |  | -0.02        |  |  |  |  |  |  |  |  |  | -0.02  |  |  |  |  |  |  |  |  |  | 0      |  |  |  |  |  |  |  |  |  |
| Grand Total ==>    |  |  |  |  |                         |  |  |  |  | Grand Total ==>    |  |  |  |  |                       |  |  |  |  | 0.61              |  |  |  |  |           |  |  |  |  | -0.01        |  |  |  |  |  |  |  |  |  | 100.00 |  |  |  |  |  |  |  |  |  | 100.00 |  |  |  |  |  |  |  |  |  |

| COOLING COIL SELECTION |  |  |  |  |           |  |  |  |  | HEATING COIL SELECTION |  |  |  |  |               |  |  |  |  |               |  |  |  |  |             |  |  |  |  |       |  |  |  |  |          |  |  |  |  |          |  |  |  |  |
|------------------------|--|--|--|--|-----------|--|--|--|--|------------------------|--|--|--|--|---------------|--|--|--|--|---------------|--|--|--|--|-------------|--|--|--|--|-------|--|--|--|--|----------|--|--|--|--|----------|--|--|--|--|
| Total Capacity         |  |  |  |  | Sens Cap. |  |  |  |  | Coil Airflow           |  |  |  |  | Enter DBWB/HR |  |  |  |  | Leave DBWB/HR |  |  |  |  | Gross Total |  |  |  |  | Glass |  |  |  |  | Lvg      |  |  |  |  |          |  |  |  |  |
| kW                     |  |  |  |  | kW        |  |  |  |  | L/s                    |  |  |  |  | °C            |  |  |  |  | °C            |  |  |  |  | L/s         |  |  |  |  | °C    |  |  |  |  | kW       |  |  |  |  | °C       |  |  |  |  |
| 0.74                   |  |  |  |  | 0.63      |  |  |  |  | 54                     |  |  |  |  | 24.4          |  |  |  |  | 17.0          |  |  |  |  | 14.1        |  |  |  |  | 12    |  |  |  |  | m²       |  |  |  |  | Main Htg |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0           |  |  |  |  | 0.0           |  |  |  |  | 0.0         |  |  |  |  | 0     |  |  |  |  | 0.0      |  |  |  |  | Aux Htg  |  |  |  |  |
| 0.00                   |  |  |  |  | 0.00      |  |  |  |  | 0                      |  |  |  |  | 0.0           |  |  |  |  | 0.0           |  |  |  |  | 0.0         |  |  |  |  | 0     |  |  |  |  | 0.0      |  |  |  |  | Preheat  |  |  |  |  |
| 0.74                   |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |               |  |  |  |  |               |  |  |  |  | 0           |  |  |  |  | 0     |  |  |  |  | Humidif  |  |  |  |  |          |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |               |  |  |  |  |               |  |  |  |  | 0           |  |  |  |  | 0     |  |  |  |  | Opt Vent |  |  |  |  |          |  |  |  |  |
|                        |  |  |  |  |           |  |  |  |  |                        |  |  |  |  |               |  |  |  |  |               |  |  |  |  |             |  |  |  |  | 0.0   |  |  |  |  | Total    |  |  |  |  |          |  |  |  |  |



Room Checksums

By GOCSA

QUIROFANO\_CALOR

| COOLING COIL PEAK               |  |       |        |  |  |  |              |  |                | CLG SPACE PEAK            |       |              |        | HEATING COIL PEAK |                                   |           |    | TEMPERATURES |        |         |  |         |  |  |  |
|---------------------------------|--|-------|--------|--|--|--|--------------|--|----------------|---------------------------|-------|--------------|--------|-------------------|-----------------------------------|-----------|----|--------------|--------|---------|--|---------|--|--|--|
| Peaked at Time:<br>Outside Air: |  |       |        |  | Mo/Hr: 7 / 15<br>OADBWB/Hr: 36 / 22 / 11 |  |              |  |                | Mo/Hr: 9 / 17<br>OADB: 28 |       |              |        |                   | Mo/Hr: Heating Design<br>OADB: -5 |           |    |              |        |         |  |         |  |  |  |
| Sens. + Lat.                    |  | Space | Plenum |  | Net                                      |  | Percent      |  | Envelope Loads | Space Sensible            |       | Percent      |        | Space Peak        |                                   | Coil Peak |    | SADB         |        | Cooling |  | Heating |  |  |  |
| kW                              |  | kW    | kW     |  | kW                                       |  | Of Total (%) |  |                | kW                        |       | Of Total (%) |        |                   | kW                                |           | kW |              | Plenum |         |  |         |  |  |  |
|                                 |  |       |        |  |  |  |              |  |                |                           |       |              |        |                   |                                   |           |    |              |        |         |  |         |  |  |  |
| Envelope Loads                  |  |       |        |  |  |  |              |  |                |                           |       |              |        |                   |                                   |           |    |              |        |         |  |         |  |  |  |
| Skylite Solar                   |  | 0.00  | 0.00   |  | 0.00                                     |  | 0            |  |                | Skylite Solar             | 0.00  |              | 0.00   |                   |                                   | 0.00      |    | 0            |        | 18.4    |  | 27.0    |  |  |  |
| Skylite Cond                    |  | 0.00  | 0.00   |  | 0.00                                     |  | 0            |  |                | Skylite Cond              | 0.00  |              | 0.00   |                   |                                   | 0.00      |    | 0            |        | 26.2    |  | 25.3    |  |  |  |
| Roof Cond                       |  | 0.00  | 0.19   |  | 0.19                                     |  | 1            |  |                | Roof Cond                 | 0.00  |              | 0.00   |                   |                                   | -0.54     |    | 2            |        | 27.1    |  | 25.3    |  |  |  |
| Glass Solar                     |  | 0.76  | 0.00   |  | 0.76                                     |  | 4            |  |                | Glass Solar               | 1.22  |              | 20     |                   |                                   | 0.00      |    | 0            |        | 36.5    |  | -4.9    |  |  |  |
| Glass Cond                      |  | 0.06  | 0.00   |  | 0.06                                     |  | 0            |  |                | Glass Cond                | 0.01  |              | 0      |                   |                                   | -0.28     |    | 1            |        | 0.2     |  | 0.0     |  |  |  |
| Wall Cond                       |  | 0.04  | 0.01   |  | 0.05                                     |  | 0            |  |                | Wall Cond                 | -0.03 |              | 0      |                   |                                   | -0.43     |    | 2            |        | 0.4     |  | 0.0     |  |  |  |
| Partition                       |  | 0.00  | 0.00   |  | 0.00                                     |  | 0            |  |                | Partition                 | 0.00  |              | 0      |                   |                                   | 0.00      |    | 0            |        | 1.1     |  | 0.0     |  |  |  |
| Exposed Floor                   |  | 0.00  | 0.00   |  | 0.00                                     |  | 0            |  |                | Exposed Floor             | 0.00  |              | 0      |                   |                                   | 0.00      |    | 0            |        |         |  |         |  |  |  |
| Infiltration                    |  | 0.00  | 0.00   |  | 0.00                                     |  | 0            |  |                | Infiltration              | 0.00  |              | 0      |                   |                                   | 0.00      |    | 0            |        |         |  |         |  |  |  |
| Sub Total ==>                   |  | 0.86  | 0.20   |  | 1.06                                     |  | 6            |  |                | Sub Total ==>             | 1.20  |              | 20     |                   |                                   | -0.71     |    | 4            |        |         |  |         |  |  |  |
| Internal Loads                  |  |       |        |  |  |  |              |  |                |                           |       |              |        |                   |                                   |           |    |              |        |         |  |         |  |  |  |
| Lights                          |  | 0.92  | 0.00   |  | 0.92                                     |  | 5            |  |                | Lights                    | 0.92  |              | 15     |                   |                                   | 0.00      |    | 0            |        | 700     |  | 700     |  |  |  |
| People                          |  | 0.79  | 0.00   |  | 0.79                                     |  | 4            |  |                | People                    | 0.44  |              | 7      |                   |                                   | 0.00      |    | 0            |        | 0       |  | 0       |  |  |  |
| Misc                            |  | 3.50  | 0.00   |  | 3.50                                     |  | 19           |  |                | Misc                      | 3.50  |              | 58     |                   |                                   | 0.00      |    | 0            |        | 700     |  | 700     |  |  |  |
| Sub Total ==>                   |  | 5.21  | 0.00   |  | 5.21                                     |  | 29           |  |                | Sub Total ==>             | 4.86  |              | 80     |                   |                                   | 0.00      |    | 0            |        | 700     |  | 700     |  |  |  |
| Ceiling Load                    |  |       |        |  |  |  |              |  |                |                           |       |              |        |                   |                                   |           |    |              |        |         |  |         |  |  |  |
| Ventilation Load                |  | 0.02  | -0.02  |  | 0.00                                     |  | 0            |  |                | Ceiling Load              | 0.00  |              | 0      |                   |                                   | -0.06     |    | 0            |        | 100.0   |  | 100.0   |  |  |  |
| Adj Air Trans Heat              |  | 0     | 0.00   |  | 0.00                                     |  | 59           |  |                | Ventilation Load          | 0.00  |              | 75     |                   |                                   | -24.77    |    | 0            |        |         |  |         |  |  |  |
| Dehumid. Ov Sizing              |  | 0.00  | 0.00   |  | 0.00                                     |  | 0            |  |                | Adj Air Trans Heat        | 0     |              | 0      |                   |                                   | 0         |    | 0            |        |         |  |         |  |  |  |
| Ov/Undr Sizing                  |  | 0.00  | 0.00   |  | 0.00                                     |  | 0            |  |                | Ov/Undr Sizing            | 0.00  |              | 0      |                   |                                   | 0.00      |    | 0            |        |         |  |         |  |  |  |
| Exhaust Heat                    |  | -0.90 | -0.90  |  | -0.90                                    |  | -5           |  |                | Exhaust Heat              | 0.00  |              | -2     |                   |                                   | 0.57      |    | 15.21        |        | 15.21   |  | 15.21   |  |  |  |
| Sup. Fan Heat                   |  | 1.24  | 0.72   |  | 1.24                                     |  | 7            |  |                | OA Preheat Diff.          | 0.00  |              | 0      |                   |                                   | 0.00      |    | 38.83        |        | 38.83   |  | 38.83   |  |  |  |
| Ret. Fan Heat                   |  | 0.72  | 0.72   |  | 0.72                                     |  | 4            |  |                | RA Preheat Diff.          | 0.00  |              | 0      |                   |                                   | 0.00      |    | 2.55         |        | 2.55    |  | 2.55    |  |  |  |
| Duct Heat Pkup                  |  | 0.00  | 0.00   |  | 0.00                                     |  | 0            |  |                | Additional Reheat         | 0.00  |              | 22     |                   |                                   | -7.30     |    | 391.40       |        | 391.40  |  | -969.85 |  |  |  |
| Reheat at Design                |  | 0.00  | 0.00   |  | 0.00                                     |  | 0            |  |                | System Plenum Heat        | 0.00  |              | 0      |                   |                                   | 0.00      |    |              |        |         |  |         |  |  |  |
| Grand Total ==>                 |  | 6.09  | 0.00   |  | 18.03                                    |  | 100.00       |  |                | Grand Total ==>           | 6.06  |              | 100.00 |                   |                                   | -0.77     |    | 6            |        | 6       |  | 6       |  |  |  |

| COOLING COIL SELECTION |       |           |              |      |                |      |                |      |          | AREAS       |    |        | HEATING COIL SELECTION |          |              |      |      |     |
|------------------------|-------|-----------|--------------|------|----------------|------|----------------|------|----------|-------------|----|--------|------------------------|----------|--------------|------|------|-----|
| Total Capacity         |       | Sens Cap. | Coil Airflow |      | Enter DB/WB/HR |      | Leave DB/WB/HR |      | Main Clg | Gross Total |    | Glass  | Main Htg               | Capacity | Coil Airflow |      | Ent  | Lvg |
| kW                     |       | kW        | L/s          |      | °C             |      | °C             |      |          | m²          |    | m² (%) |                        | kW       | L/s          | °C   | °C   |     |
| Main Clg               | 18.02 | 15.38     | 700          | 36.5 | 21.6           | 11.5 | 16.9           | 14.6 | 10.3     | Floor       | 46 |        |                        | -8.1     | 700          | 16.9 | 27.0 |     |
| Aux Clg                | 0.00  | 0.00      | 0            | 0.0  | 0.0            | 0.0  | 0.0            | 0.0  | 0.0      | Part        | 44 |        |                        | 0.0      | 0            | 0.0  | 0.0  |     |
| Opt Vent               | 0.00  | 0.00      | 0            | 0.0  | 0.0            | 0.0  | 0.0            | 0.0  | 0.0      | ExFlr       | 0  |        |                        | -17.5    | 700          | -4.9 | 16.9 |     |
| Total/                 | 18.02 |           |              |      |                |      |                |      |          | Roof        | 46 | 0      | 0                      | -7.3     | 700          | 16.9 | 26.0 |     |
|                        |       |           |              |      |                |      |                |      |          | Wall        | 44 | 6      | 14                     | -19.1    | 700          | 0.5  | 10.3 |     |
|                        |       |           |              |      |                |      |                |      |          | Opt Vent    |    |        |                        | 0.0      | 0            | 0.0  | 0.0  |     |
|                        |       |           |              |      |                |      |                |      |          | Total       |    |        |                        | -44.7    |              |      |      |     |



Room Checksums

By GOCSA

UTA 06-Urgencias PL01-serv-afectado

| COOLING COIL PEAK   |                       |                        |              | CLG SPACE PEAK                 |                   |                      |                    | HEATING COIL PEAK        |                       |                      |  | TEMPERATURES                            |   |  |  |
|---|-----------------------|------------------------|--------------|--------------------------------|-------------------|----------------------|--------------------|--------------------------|-----------------------|----------------------|--|---|---|--|--|
| Peaked at Time: Outside Air: OADBWB/Hr: 36 / 22 / 11 Mo/Hr: 7 / 15 OADB: 36 |                       |                        |              | Mo/Hr: Heating Design OADB: -5 |                   |                      |                    |                          |                       |                      |  |   |   |  |  |
| Envelope Loads  | Space Sens. + Lat. kW | Plenum Sens. + Lat. kW | Net Total kW | Percent Of Total (%)           | Space Sensible kW | Percent Of Total (%) | Envelope Loads     | Space Peak Space Sens kW | Coil Peak Tot Sens kW | Percent Of Total (%) | SADB Plenum Return Ret/OA Fm MtrTD Fm BidTD Fm Frict | Cooling 24.0 24.0 24.0 36.5 0.1 0.3 0.9 | Heating 24.0 22.0 22.0 -4.9 0.0 0.0 0.0 |  |  |
|   |                       |                        |              |                                |                   |                      |                    |                          |                       |                      |  |   |   |  |  |
| Skylite Solar   | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Skylite Solar      | 0.00                     | 0.00                  | 0                    |  |   |   |  |  |
| Skylite Cond  | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Skylite Cond       | 0.00                     | 0.00                  | 0                    |  |   |   |  |  |
| Roof Cond   | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Roof Cond          | 0.00                     | 0.00                  | 0                    |  |   |   |  |  |
| Glass Solar   | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Glass Solar        | 0.00                     | 0.00                  | 0                    |  |   |   |  |  |
| Glass Cond  | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Glass Cond         | 0.00                     | 0.00                  | 0                    |  |   |   |  |  |
| Wall Cond   | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Wall Cond          | 0.00                     | 0.00                  | 0                    |  |   |   |  |  |
| Partition   | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Partition          | 0.00                     | 0.00                  | 0                    |  |   |   |  |  |
| Exposed Floor   | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Exposed Floor      | 0.00                     | 0.00                  | 0                    |  |   |   |  |  |
| Infiltration  | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Infiltration       | 0.00                     | 0.00                  | 0                    |  |   |   |  |  |
| Sub Total ==>   | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Sub Total ==>      | 0.00                     | 0.00                  | 0                    |  |   |   |  |  |
| Internal Loads  |                       |                        |              | Internal Loads                 |                   |                      |                    |                          |                       |                      |  | AIRFLOWS                                |   |  |  |
| Lights  | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Lights             | 0.00                     | 0.00                  | 0                    | Vent 2,222   | Cooling 2,222                           | Heating 2,222                           |  |  |
| People  | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | People             | 0.00                     | 0.00                  | 0                    | Infil  | 0                                       | 0                                       |  |  |
| Misc  | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Misc               | 0.00                     | 0.00                  | 0                    | Supply 2,222   | 2,222                                   | 2,222                                   |  |  |
| Sub Total ==>   | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Sub Total ==>      | 0.00                     | 0.00                  | 0                    | MinStop/Rh 2,222                                     | 2,222                                   | 2,222                                   |  |  |
| Ceiling Load  | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Ceiling Load       | 0.00                     | 0                     | 0                    | Return 2,222   | 2,222                                   | 2,222                                   |  |  |
| Ventilation Load  | 0.00                  | 0.00                   | 33.51        | 73                             | 0.00              | 0                    | Ventilation Load   | 0.00                     | 0.00                  | 0                    | Exhaust 2,222  | 2,222                                   | 2,222                                   |  |  |
| Adj Air Trans Heat  | 0                     | 0.00                   | 0            | 0                              | 0                 | 0                    | Adj Air Trans Heat | 0                        | 0.00                  | 0                    | Rm Exh 0   | 0                                       | 0                                       |  |  |
| Dehumid. Ov Sizing  | 0.00                  | 0.00                   | 9            | 20                             | 0.00              | 0                    | Ov/Undr Sizing     | 0.00                     | 0.00                  | 0                    | Auxil 0  | 0                                       | 0                                       |  |  |
| Exhaust Heat  | -2.30                 | -2.30                  | -2.30        | -5                             | 0.00              | 0                    | Exhaust Heat       | 0.00                     | 0.00                  | 0                    | ENGINEERING CKS                                      |   |   |  |  |
| Sup. Fan Heat   | 3.28                  | 3.28                   | 3.28         | 7                              | 0.00              | 0                    | OA Preheat Diff.   | 0.00                     | 0.00                  | 0                    | % OA 100.0   | Cooling 100.0                           | Heating 100.0                           |  |  |
| Ret. Fan Heat   | 2.30                  | 2.30                   | 2.30         | 5                              | 0.00              | 0                    | RA Preheat Diff.   | 0.00                     | 0.00                  | 0                    | Lps/m² 239.18  | 239.18                                  | 239.18                                  |  |  |
| Duct Heat PkUp  | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | Additional Reheat  | -12.28                   | 15                    | 0                    | Lps/kW 48.45   | 48.45                                   |   |  |  |
| Reheat at Design  | 0.00                  | 0.00                   | 0.00         | 0                              | 0.00              | 0                    | System Plenum Heat | 0.00                     | 0.00                  | 0                    | m²/kW 0.20   | 0.20                                    |   |  |  |
| Grand Total ==>   | 0.00                  | 0.00                   | 45.85        | 100.00                         | 0.00              | 100.00               | Grand Total ==>    | 0.00                     | -80.72                | 100.00               | W/m² 4,933.39  | -13,920.84                              |   |  |  |
|   |                       |                        |              |                                |                   |                      |                    |                          |                       |                      |  | No. People 0                            |   |  |  |

TEMPERATURES

|          |         |         |
|----------|---------|---------|
| SADB     | Cooling | Heating |
| Plenum   | 24.0    | 24.0    |
| Return   | 24.0    | 22.0    |
| Ret/OA   | 36.5    | -4.9    |
| Fn MtrTD | 0.1     | 0.0     |
| Fn BidTD | 0.3     | 0.0     |
| Fn Frict | 0.9     | 0.0     |

AIRFLOWS

|            |         |         |
|------------|---------|---------|
| Vent       | Cooling | Heating |
| Infil      | 2,222   | 2,222   |
| Supply     | 0       | 0       |
| MinStop/Rh | 2,222   | 2,222   |
| Return     | 2,222   | 2,222   |
| Exhaust    | 2,222   | 2,222   |
| Rm Exh     | 0       | 0       |
| Auxil      | 0       | 0       |

ENGINEERING CKS

|            |          |            |
|------------|----------|------------|
| % OA       | Cooling  | Heating    |
| Lps/m²     | 100.0    | 100.0      |
| Lps/kW     | 239.18   | 239.18     |
| 48.45      |          |            |
| m²/kW      | 0.20     |            |
| W/m²       | 4,933.39 | -13,920.84 |
| No. People | 0        |            |

COOLING COIL SELECTION

| Total Capacity | Sens Cap. | Coil Airflow | Enter DB/WB/HR | Leave DB/WB/HR |
|----------------|-----------|--------------|----------------|----------------|
| kW             | kW        | L/s          | °C             | °C             |
| Main Clg       | 45.85     | 2,222        | 36.5           | 19.2           |
| Aux Clg        | 0.00      | 0            | 0.0            | 0.0            |
| Opt Vent       | 0.00      | 0            | 0.0            | 0.0            |
| Total          | 45.85     |              |                |                |

AREAS

| Gross Total | Glass |
|-------------|-------|
|             | m²    |
| Floor       | 9     |
| Part        | 0     |
| ExFlr       | 0     |
| Roof        | 0     |
| Wall        | 0     |

HEATING COIL SELECTION

| Capacity | Coil Airflow | Ent   | Lvg  |
|----------|--------------|-------|------|
| kW       | L/s          | °C    | °C   |
| Main Htg | -12.3        | 2,222 | 19.2 |
| Aux Htg  | 0.0          | 0     | 0.0  |
| Preheat  | -70.2        | 2,222 | -4.9 |
| Reheat   | -12.3        | 2,222 | 19.2 |
| Humidif  | -46.9        | 2,222 | 0.5  |
| Opt Vent | 0.0          | 0     | 0.0  |
| Total    | -129.4       |       |      |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums report 2024-12-06 14:58:02 of 194



Room Checksums

By GOCSA

UTA 09-Cafeteria-serv-afectado

| COOLING COIL PEAK                     |              |       |        | CLG SPACE PEAK |                  |                |                  | HEATING COIL PEAK     |                    |                  |                    |
|---------------------------------------|--------------|-------|--------|----------------|------------------|----------------|------------------|-----------------------|--------------------|------------------|--------------------|
| Peaked at Time: Mo/Hr: 7 / 15         |              |       |        | Mo/Hr: 7 / 14  |                  |                |                  | Mo/Hr: Heating Design |                    |                  |                    |
| Outside Air: OADB/WB/HR: 36 / 22 / 11 |              |       |        | OADB: 36       |                  |                |                  | OADB: -5              |                    |                  |                    |
| Envelope Loads                        | Space        |       | Plenum | Net Total      | Percent Of Total | Space Sensible | Percent Of Total | Space Sens            | Coil Peak Tot Sens | Percent Of Total |                    |
|                                       | Sens. + Lat. | kW    |        |                |                  |                |                  |                       |                    |                  |                    |
| Skylite Solar                         | 0.00         | 0.00  | 0.00   | 0.00           | 0                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Envelope Loads     |
| Skylite Cond                          | 0.00         | 0.00  | 0.00   | 0.00           | 0                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Skylite Solar      |
| Roof Cond                             | 0.00         | 0.00  | 0.00   | 0.00           | 0                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Skylite Cond       |
| Glass Solar                           | 0.00         | 0.00  | 0.00   | 0.00           | 0                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Roof Cond          |
| Glass Cond                            | 0.00         | 0.00  | 0.00   | 0.00           | 0                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Glass Solar        |
| Wall Cond                             | 0.00         | 0.00  | 0.00   | 0.00           | 0                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Glass Cond         |
| Partition                             | 0.00         | 0.00  | 0.00   | 0.00           | 0                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Wall Cond          |
| Exposed Floor                         | 0.00         | 0.00  | 0.00   | 0.00           | 0                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Partition          |
| Infiltration                          | 0.00         | 0.00  | 0.00   | 0.00           | 0                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Exposed Floor      |
| Sub Total ==>                         | 0.00         | 0.00  | 0.00   | 0.00           | 0                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Infiltration       |
| Internal Loads                        |              |       |        |                |                  |                |                  |                       |                    |                  |                    |
| Lights                                | 2.82         | 0.13  | 0.70   | 3.52           | 12               | 2.82           | 23               | 0.00                  | 0.00               | 0                | Sub Total ==>      |
| People                                | 6.59         | 0.00  | 0.00   | 6.59           | 23               | 3.66           | 30               | 0.00                  | 0.00               | 0                | Internal Loads     |
| Misc                                  | 5.50         | 0.00  | 0.00   | 5.50           | 19               | 5.50           | 45               | 0.00                  | 0.00               | 0                | Lights             |
| Sub Total ==>                         | 14.91        | 0.70  | 0.70   | 15.61          | 54               | 11.98          | 99               | 0.00                  | 0.00               | 0                | People             |
| Ceiling Load                          |              |       |        |                |                  |                |                  |                       |                    |                  |                    |
| Ventilation Load                      | 0.13         | -0.13 | 0.00   | 0.00           | 0                | 0.13           | 1                | 0.00                  | 0                  | 0                | Misc               |
| Adj Air Trans Heat                    | 0.00         | 0.00  | 0.00   | 8.38           | 29               | 0.00           | 0                | 0.00                  | -19.25             | 100              | Sub Total ==>      |
| Dehumid. Ov Sizing                    | 0            | 0     | 0      | 0              | 0                | 0              | 0                | 0                     | 0                  | 0                | Ceiling Load       |
| OvUndr Sizing                         | 0.00         | -0.81 | 0.00   | 0.00           | 0                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Ventilation Load   |
| Exhaust Heat                          | -0.81        | 0.00  | 0.00   | -0.81          | -3               | 0.00           | 0                | 0.00                  | 0.00               | 0                | Adj Air Trans Heat |
| Sup. Fan Heat                         | 3.25         | 2.28  | 0.00   | 3.25           | 11               | 0.00           | 0                | 0.00                  | 0.00               | 0                | OvUndr Sizing      |
| Ret. Fan Heat                         | 2.28         | 0.00  | 0.00   | 2.28           | 8                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Exhaust Heat       |
| Duct Heat Pkup                        | 0.00         | 0.00  | 0.00   | 0.00           | 0                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Sup. Fan Heat      |
| Reheat at Design                      | 0.00         | 0.00  | 0.00   | 0.00           | 0                | 0.00           | 0                | 0.00                  | 0.00               | 0                | Ret. Fan Heat      |
| Grand Total ==>                       | 15.04        | 2.04  | 2.04   | 28.71          | 100.00           | 12.11          | 100.00           | 0.00                  | -19.25             | 100.00           | Duct Heat Pkup     |

| TEMPERATURES |         |      |         |      |  |
|--------------|---------|------|---------|------|--|
| SADB         | Cooling | 19.2 | Heating | 22.0 |  |
| Plenum       |         | 24.2 |         | 22.0 |  |
| Return       |         | 25.1 |         | 14.0 |  |
| Ref/OA       |         | 28.4 |         | 22.0 |  |
| Fn MtrTD     |         | 0.1  |         | 14.4 |  |
| Fn BidTD     |         | 0.3  |         | 0.0  |  |
| Fn Frict     |         | 0.9  |         | 0.0  |  |

| AIRFLOWS   |         |       |         |       |  |
|------------|---------|-------|---------|-------|--|
| Vent       | Cooling | 625   | Heating | 625   |  |
| Infil      |         | 0     |         | 0     |  |
| Supply     |         | 2,200 |         | 2,200 |  |
| MinStop/Rh |         | 0     |         | 0     |  |
| Return     |         | 2,200 |         | 2,200 |  |
| Exhaust    |         | 625   |         | 625   |  |
| Rm Exh     |         | 0     |         | 0     |  |
| Auxil      |         | 0     |         | 0     |  |

| ENGINEERING CKS |         |       |         |        |  |
|-----------------|---------|-------|---------|--------|--|
| % OA            | Cooling | 28.4  | Heating | 28.4   |  |
| Lps/m²          |         | 6.88  |         | 6.88   |  |
| Lps/kW          |         | 76.63 |         |        |  |
| m²/kW           |         | 11.15 |         |        |  |
| W/m²            |         | 89.66 |         | -60.13 |  |
| No. People      |         |       |         | 50     |  |

| COOLING COIL SELECTION |           |              |                |                |
|------------------------|-----------|--------------|----------------|----------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR | Leave DB/WB/HR |
| kW                     | kW        | L/s          | °C g/kg        | °C g/kg        |
| Main Clg               | 28.70     | 2,200        | 19.4 11.7      | 17.9 15.8 11.3 |
| Aux Clg                | 0.00      | 0            | 0.0 0.0 0.0    | 0.0 0.0 0.0    |
| Opt Vent               | 0.00      | 0            | 0.0 0.0 0.0    | 0.0 0.0 0.0    |
| Total                  | 28.70     |              |                |                |

| AREAS       |     | Glass |
|-------------|-----|-------|
| Gross Total | m²  | (%)   |
| Floor       | 320 |       |
| Part        | 0   |       |
| ExFlr       | 0   |       |
| Roof        | 0   | 0     |
| Wall        | 0   | 0     |

| HEATING COIL SELECTION |              |       |           |
|------------------------|--------------|-------|-----------|
| Capacity               | Coil Airflow | Ent   | Lvg       |
| kW                     | L/s          | °C    | °C        |
| Main Htg               | -19.3        | 2,200 | 14.4 22.0 |
| Aux Htg                | 0.0          | 0     | 0.0 0.0   |
| Preheat                | -8.9         | 2,200 | 14.4 17.9 |
| Humidif                | 0.0          | 0     | 0.0 0.0   |
| Opt Vent               | 0.0          | 0     | 0.0 0.0   |
| Total                  | -19.3        |       |           |

Project Name:

Dataset Name:

D:\NUEVA CARPETA\CALCULO DE CARGAS\HCSC\_FASE III\28190026BG\_FASE II\HCSCV10M1.TRC

TRACE® 700 v6.1.3 calculated at 03:03 PM on 06/12/2024

Alternative - 1 Room Checksums report page 88 of 194



Room Checksums

By GOCSA

UTA 19 Planta 00 -serv-afectado

| COOLING COIL PEAK            |              |              |       | CLG SPACE PEAK         |          |          |          | HEATING COIL PEAK              |           |          |  |
|------------------------------|--------------|--------------|-------|------------------------|----------|----------|----------|--------------------------------|-----------|----------|--|
| Peaked at Time: Outside Air: |              |              |       | Mo/Hr: 7 / 15 OADB: 30 |          |          |          | Mo/Hr: Heating Design OADB: -5 |           |          |  |
| Sens. + Lat.                 | Space        | Plenum       | Net   | Space                  | Percent  | Percent  | Percent  | Space Peak                     | Coil Peak | Percent  |  |
| Sens. + Lat.                 | Sens. + Lat. | Sens. + Lat. | Total | Sensible               | Of Total | Of Total | Of Total | Space Sens                     | Tot Sens  | Of Total |  |
| kW                           | kW           | kW           | kW    | kW                     | (%)      | (%)      | (%)      | kW                             | kW        | (%)      |  |
| Envelope Loads               |              |              |       |                        |          |          |          |                                |           |          |  |
| Skylite Solar                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Skylite Cond                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Roof Cond                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Glass Solar                  | 1.20         | 0.00         | 1.20  | 1.20                   | 3        | 5        | 5        | 0.00                           | 0.00      | 0        |  |
| Glass Cond                   | 0.27         | 0.00         | 0.27  | 0.27                   | 1        | 1        | 1        | -0.89                          | -0.89     | 3        |  |
| Wall Cond                    | 0.18         | 0.03         | 0.21  | 0.29                   | 1        | 1        | 1        | -2.20                          | -2.66     | 10       |  |
| Partition                    | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Exposed Floor                | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Infiltration                 | 0.00         | 0.00         | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 1.65         | 0.03         | 1.68  | 1.76                   | 8        | 8        | 8        | -3.09                          | -3.55     | 13       |  |
| Internal Loads               |              |              |       |                        |          |          |          |                                |           |          |  |
| Lights                       | 6.60         | 1.65         | 8.25  | 6.60                   | 30       | 30       | 30       | 0.00                           | 0.00      | 0        |  |
| People                       | 7.91         | 0.00         | 7.91  | 4.39                   | 20       | 20       | 20       | 0.00                           | 0.00      | 0        |  |
| Misc                         | 8.90         | 0.00         | 8.90  | 8.90                   | 40       | 40       | 40       | 0.00                           | 0.00      | 0        |  |
| Sub Total ==>                | 23.41        | 1.65         | 25.06 | 19.89                  | 90       | 90       | 90       | 0.00                           | 0.00      | 0        |  |
| Ceiling Load                 |              |              |       |                        |          |          |          |                                |           |          |  |
| Ventilation Load             | 0.50         | -0.50        | 0.00  | 0.50                   | 2        | 2        | 2        | -0.13                          | 0         | 0        |  |
| Adj Air Trans Heat           | 0.00         | 0.00         | 14.95 | 0.00                   | 0        | 0        | 0        | 0.00                           | -23.10    | 87       |  |
| Dehumid. Ov Sizing           | 0            | 0            | 0     | 0                      | 0        | 0        | 0        | 0                              | 0         | 0        |  |
| OvUndr Sizing                | 0.00         | -1.09        | 0.00  | 0.00                   | 0        | 0        | 0        | 0.00                           | 0.00      | 0        |  |
| Exhaust Heat                 |              |              | -1.09 |                        | -2       |          |          | 0.09                           | 0.09      | 0        |  |
| Sup. Fan Heat                |              |              | 4.14  |                        | 9        |          |          | 0.00                           | 0.00      | 0        |  |
| Ret. Fan Heat                |              |              | 2.90  |                        | 6        |          |          | 0.00                           | 0.00      | 0        |  |
| Duct Heat Pkup               |              |              | 0.00  |                        | 0        |          |          | 0.00                           | 0.00      | 0        |  |
| Reheat at Design             |              |              | 0.00  |                        | 0        |          |          | 0.00                           | 0.00      | 0        |  |
| Grand Total ==>              | 25.56        | 2.99         | 47.64 | 22.15                  | 100.00   | 100.00   | 100.00   | -3.22                          | -26.56    | 100.00   |  |

| TEMPERATURES |         |         |  |
|--------------|---------|---------|--|
| SADB         | Cooling | Heating |  |
| Plenum       | 17.1    | 23.0    |  |
| Return       | 24.4    | 21.9    |  |
| Ret/OA       | 25.3    | 21.9    |  |
| Fn MtrTD     | 28.3    | 14.7    |  |
| Fn BidTD     | 0.1     | 0.0     |  |
| Fn Frict     | 0.3     | 0.0     |  |
|              | 0.9     | 0.0     |  |

| AIRFLOWS   |         |         |  |
|------------|---------|---------|--|
| Vent       | Cooling | Heating |  |
| Infil      | 750     | 750     |  |
| Supply     | 0       | 0       |  |
| MinStop/Rh | 2,800   | 2,800   |  |
| Return     | 0       | 0       |  |
| Exhaust    | 2,800   | 2,800   |  |
| Rm Exh     | 750     | 750     |  |
| Auxil      | 0       | 0       |  |
|            | 0       | 0       |  |

| ENGINEERING CKS |         |         |  |
|-----------------|---------|---------|--|
| % OA            | Cooling | Heating |  |
| Lps/m²          | 26.8    | 26.8    |  |
| Lps/kW          | 3.73    | 3.73    |  |
| m²/kW           | 58.78   |         |  |
| W/m²            | 15.75   |         |  |
|                 | 63.48   | -35.41  |  |
| No. People      |         | 60      |  |

| COOLING COIL SELECTION |           |              |                         |
|------------------------|-----------|--------------|-------------------------|
| Total Capacity         | Sens Cap. | Coil Airflow | Enter DB/WB/HR          |
| kW                     | kW        | L/s          | °C °C g/kg              |
| Main Clg               | 47.63     | 2,800        | 18.1 10.0 15.8 13.0 9.0 |
| Aux Clg                | 0.00      | 0.00         | 0.0 0.0 0.0 0.0 0.0     |
| Opt Vent               | 0.00      | 0            | 0.0 0.0 0.0 0.0 0.0     |
| Total                  | 47.63     |              |                         |

| AREAS       |     | Glass |
|-------------|-----|-------|
| Gross Total | m²  | (%)   |
| Floor       | 750 |       |
| Part        | 0   |       |
| ExFlr       | 0   |       |
| Roof        | 0   | 0     |
| Wall        | 243 | 22    |
|             | 9   |       |

| HEATING COIL SELECTION |              |       |           |
|------------------------|--------------|-------|-----------|
| Capacity               | Coil Airflow | Ent   | Lvg       |
| kW                     | L/s          | °C    | °C        |
| Main Htg               | -26.6        | 2,800 | 14.7 23.0 |
| Aux Htg                | 0.0          | 0     | 0.0 0.0   |
| Preheat                | -3.5         | 2,800 | 14.7 15.8 |
| Humidif                | 0.0          | 0     | 0.0 0.0   |
| Opt Vent               | 0.0          | 0     | 0.0 0.0   |
| Total                  | -26.6        |       |           |



### **1.3.- CÁLCULOS DE TUBERÍAS**



Proyecto BASICO Y DE EJECUCION FASE III HOSPITAL UNIVERSITARIO CLÍNICO SAN CARLOS

| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |              |              |       |                 |    |      |                |        |     |      |     |       |       |       |       |
|--|--------------|--------------|-------|-----------------|----|------|----------------|--------|-----|------|-----|-------|-------|-------|-------|
| Planta   | Montante     | Equipo/Local | Tramo | Potencia        | dT | C.S  | Porc<br>glicol | Qins   | DN  | V    | Mat | Long  | Pc    | Pc/m  | SPc   |
|  |              |              |       | Kw              | °C |      | %              | l/s    | mm  | m/s  |     | m     | mcd   | mcd/m | mcd   |
| Método de Cálculo pdc                              |              |              |       | Darcy-Weissbach |    |      |                |        |     |      |     |       |       |       |       |
| PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS     |              |              |       |                 |    |      |                |        |     |      |     |       |       |       |       |
| CIRCUITO: Primario Frio                            |              |              |       |                 |    |      |                |        |     |      |     |       |       |       |       |
| RetornoEnfria -M1R2_1                              | -M1R2_1      | -M1R2_1      |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 5,0   | 0,063 | 13    | 4,828 |
| RetornoEnfria -M1R2_1                              | EXISTENTE 1  |              |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 10,4  | 0,834 | 13    | 5,662 |
| RetornoEnfria +M0R2                                | +M0R2        | +M0R2        |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 5,0   | 0,063 | 13    | 0,063 |
| RetornoEnfria +M0R2                                | M1R2         | 2            |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 105,9 | 3,275 | 13    | 3,337 |
| RetornoEnfria +M0R2                                | M2           | 3            |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 1,1   | 0,249 | 13    | 0,311 |
| RetornoEnfria +M2                                  | +M2          | +M2          |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 5,0   | 0,063 | 13    | 0,374 |
| RetornoEnfria +M2                                  |              | 1            |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 5,3   | 0,201 | 13    | 0,575 |
| RetornoEnfria +M2                                  |              | 2            |       | 10.806,000      | 5  | 1,00 | 0,00           | 516,29 | 22" | 2,31 | FE  | 10,6  | 0,428 | 9     | 1,003 |
| RetornoEnfria +M2                                  |              | 3            |       | 9.005,000       | 5  | 1,00 | 0,00           | 430,24 | 20" | 2,32 | FE  | 5,9   | 0,166 | 11    | 1,169 |
| RetornoEnfria +M2                                  |              | 4            |       | 7.204,000       | 5  | 1,00 | 0,00           | 344,19 | 18" | 2,29 | FE  | 5,9   | 0,173 | 12    | 1,341 |
| RetornoEnfria +M2                                  |              | 5            |       | 5.403,000       | 5  | 1,00 | 0,00           | 258,14 | 16" | 2,17 | FE  | 5,9   | 0,167 | 12    | 1,508 |
| RetornoEnfria +M2                                  |              | 6            |       | 3.602,000       | 5  | 1,00 | 0,00           | 172,10 | 12" | 2,28 | FE  | 5,9   | 0,212 | 17    | 1,720 |
| RetornoEnfria +M2                                  | ENFRIADOF 7  |              |       | 1.801,000       | 5  | 1,00 | 0,00           | 86,05  | 10" | 1,62 | FE  | 17,4  | 0,597 | 11    | 2,316 |
| RetornoEnfria +M2                                  | ENFRIADOF 8  |              |       | 1.801,000       | 5  | 1,00 | 0,00           | 86,05  | 10" | 1,62 | FE  | 11,5  | 0,397 | 11    | 2,116 |
| RetornoEnfria +M2                                  | ENFRIADOF 9  |              |       | 1.801,000       | 5  | 1,00 | 0,00           | 86,05  | 10" | 1,62 | FE  | 11,5  | 0,397 | 11    | 1,905 |
| RetornoEnfria +M2                                  | ENFRIADOF 10 |              |       | 1.801,000       | 5  | 1,00 | 0,00           | 86,05  | 10" | 1,62 | FE  | 11,5  | 0,397 | 11    | 1,738 |
| RetornoEnfria +M2                                  | ENFRIADOF 11 |              |       | 1.801,000       | 5  | 1,00 | 0,00           | 86,05  | 10" | 1,62 | FE  | 11,5  | 0,397 | 11    | 1,566 |
| RetornoEnfria +M2                                  | ENFRIADOF 12 |              |       | 1.801,000       | 5  | 1,00 | 0,00           | 86,05  | 10" | 1,62 | FE  | 11,5  | 0,397 | 11    | 1,399 |
| RetornoEnfria +M2                                  | ENFRIADOF 13 |              |       | 1.801,000       | 5  | 1,00 | 0,00           | 86,05  | 10" | 1,62 | FE  | 9,1   | 0,502 | 11    | 1,077 |
| RetornoEnfria +M1R2                                | +M1R2        | +M1R2        |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 5,0   | 0,063 | 13    | 3,400 |
| RetornoEnfria +M1R2                                | M1R2_1       | 14           |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 49,9  | 1,365 | 13    | 4,765 |



| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |             |              |       |                 |    |      |                |        |     |      |     |       |       |        |       |
|--|-------------|--------------|-------|-----------------|----|------|----------------|--------|-----|------|-----|-------|-------|--------|-------|
| Planta   | Montante    | Equipo/Local | Tramo | Potencia        | dT | C.S  | Porc<br>glicol | Qins   | DN  | V    | Mat | Long  | Pc    | Pc/m   | SPc   |
|  |             |              |       | Kw              | °C |      | %              | l/s    | mm  | m/s  |     | m     | mcdá  | mmda/m | mcdá  |
| Método de Cálculo pdc                              |             |              |       | Darcy-Weissbach |    |      |                |        |     |      |     |       |       |        |       |
| PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS     |             |              |       |                 |    |      |                |        |     |      |     |       |       |        |       |
| CIRCUITO: Primario Frio                            |             |              |       |                 |    |      |                |        |     |      |     |       |       |        |       |
| RetornoBomb -MIR_1                                 | -MIR_1      | -MIR_1       |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 5,0   | 0,063 | 13     | 4,930 |
| RetornoBomb -MIR_1                                 | EXISTENTE 1 |              |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 5,1   | 0,366 | 13     | 5,296 |
| RetornoBomb +M0R                                   | +M0R        | +M0R         |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 5,0   | 0,063 | 13     | 0,063 |
| RetornoBomb +M0R                                   | BOMBEO 2    |              |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 13,0  | 0,465 | 13     | 0,528 |
| RetornoBomb +M0R                                   | MIR         | 3            |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 106,1 | 3,377 | 13     | 3,440 |
| RetornoBomb +M1R                                   | +M1R        | +M1R         |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 5,0   | 0,063 | 13     | 3,503 |
| RetornoBomb +M1R                                   | MIR_1       | 1            |       | 12.607,000      | 5  | 1,00 | 0,00           | 602,33 | 22" | 2,69 | FE  | 49,9  | 1,365 | 13     | 4,867 |
|  |             |              |       |                 |    |      |                |        |     |      |     |       |       |        |       |



| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |       |                 |    |     |                |      |    |     |     |      |      |          |      |
|--|----------|--------------|-------|-----------------|----|-----|----------------|------|----|-----|-----|------|------|----------|------|
| Planta   | Montante | Equipo/Local | Tramo | Potencia        | dT | C.S | Porc<br>elícol | Qins | DN | V   | Mat | Long | Pc   | Pc/m     | SPc  |
|  |          |              |       | Kw              | °C |     | %              | l/s  | mm | m/s |     | m    | mdca | mmmdca/m | mdca |
| Método de Cálculo pdc                              |          |              |       | Darcy-Weissbach |    |     |                |      |    |     |     |      |      |          |      |

|  |
|--|
| PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS |
|--|

|                         |     |              |     |            |   |      |      |        |     |      |    |      |       |    |       |
|-------------------------|-----|--------------|-----|------------|---|------|------|--------|-----|------|----|------|-------|----|-------|
| CIRCUITO: Primario Frio |     |              |     |            |   |      |      |        |     |      |    |      |       |    |       |
| impulsionP00            | +M1 | +M1          | +M1 | 12.607,000 | 5 | 1,00 | 0,00 | 602,33 | 22" | 2,69 | FE | 5,0  | 0,063 | 13 | 0,063 |
| impulsionP00            | +M1 |              | 1   | 12.607,000 | 5 | 1,00 | 0,00 | 602,33 | 22" | 2,69 | FE | 5,3  | 0,201 | 13 | 0,264 |
| impulsionP00            | +M1 |              | 2   | 10.806,000 | 5 | 1,00 | 0,00 | 516,29 | 22" | 2,31 | FE | 10,6 | 0,428 | 9  | 0,691 |
| impulsionP00            | +M1 |              | 3   | 9.005,000  | 5 | 1,00 | 0,00 | 430,24 | 20" | 2,32 | FE | 5,9  | 0,166 | 11 | 0,858 |
| impulsionP00            | +M1 |              | 4   | 7.204,000  | 5 | 1,00 | 0,00 | 344,19 | 18" | 2,29 | FE | 5,9  | 0,173 | 12 | 1,030 |
| impulsionP00            | +M1 |              | 5   | 5.403,000  | 5 | 1,00 | 0,00 | 258,14 | 16" | 2,17 | FE | 5,9  | 0,167 | 12 | 1,197 |
| impulsionP00            | +M1 |              | 6   | 3.602,000  | 5 | 1,00 | 0,00 | 172,10 | 12" | 2,28 | FE | 5,9  | 0,212 | 17 | 1,408 |
| impulsionP00            | +M1 | ENFRIADOF 7  |     | 1.801,000  | 5 | 1,00 | 0,00 | 86,05  | 10" | 1,62 | FE | 17,4 | 0,597 | 11 | 2,005 |
| impulsionP00            | +M1 | ENFRIADOF 8  |     | 1.801,000  | 5 | 1,00 | 0,00 | 86,05  | 10" | 1,62 | FE | 11,5 | 0,397 | 11 | 1,805 |
| impulsionP00            | +M1 | ENFRIADOF 9  |     | 1.801,000  | 5 | 1,00 | 0,00 | 86,05  | 10" | 1,62 | FE | 11,5 | 0,397 | 11 | 1,593 |
| impulsionP00            | +M1 | ENFRIADOF 10 |     | 1.801,000  | 5 | 1,00 | 0,00 | 86,05  | 10" | 1,62 | FE | 11,5 | 0,397 | 11 | 1,427 |
| impulsionP00            | +M1 | ENFRIADOF 11 |     | 1.801,000  | 5 | 1,00 | 0,00 | 86,05  | 10" | 1,62 | FE | 11,5 | 0,397 | 11 | 1,254 |
| impulsionP00            | +M1 | ENFRIADOF 12 |     | 1.801,000  | 5 | 1,00 | 0,00 | 86,05  | 10" | 1,62 | FE | 11,5 | 0,397 | 11 | 1,088 |
| impulsionP00            | +M1 | ENFRIADOF 13 |     | 1.801,000  | 5 | 1,00 | 0,00 | 86,05  | 10" | 1,62 | FE | 9,1  | 0,502 | 11 | 0,766 |
| impulsionPs1            | +M0 | +M0          | +M0 | 12.607,000 | 5 | 1,00 | 0,00 | 602,33 | 26" | 1,90 | FE | 5,0  | 0,027 | 5  | 0,027 |
| impulsionPs1            | +M0 | M1           | 1   | 12.607,000 | 5 | 1,00 | 0,00 | 602,33 | 22" | 2,69 | FE | 12,3 | 0,155 | 13 | 0,181 |

|                           |        |        |                                  |
|---------------------------|--------|--------|----------------------------------|
| Potencia instalada        | 12.607 | 12.612 | Kw, incluyendo pérdidas de calor |
| Coeficiente simultaneidad | 1,00   | 0,038% |                                  |

| CALCULO DE LA BOMBA             |         |
|---------------------------------|---------|
| PERDIDA DE CARGA MAXIMA (mdca)  | 12,96   |
|                                 |         |
| PERDIDA TOTAL TUBERIAS (mdca)   | 13,0    |
| ENFRIADORA (mdca)               | 6,6     |
| SEPARADOR LODOS (mdca)          | 2,1     |
| VALVULA CAUDAL CONSTANTE (mdca) | 2,3     |
| FILTRO (mdca)                   | 0,4     |
| VALVULAS (mdca)                 | 0,1     |
|                                 |         |
| TOTAL (mdca)                    | 24,5    |
| SEGURIDAD (mdca)                | 27,0    |
| CAUDAL (m3/h)                   | 2169,23 |



| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS.             |          |              |       |                 |    |      |                |      |        |      |     |      |       |        |       |
|--|----------|--------------|-------|-----------------|----|------|----------------|------|--------|------|-----|------|-------|--------|-------|
| Planta   | Montante | Equipo/Local | Tramo | Potencia        | dT | C.S  | Porc<br>glicol | Qins | DN     | V    | Mat | Long | Pc    | Pc/m   | SPc   |
|  |          |              |       | Kw              | °C |      | %              | l/s  | mm     | m/s  |     | m    | mcdá  | mmdá/m | mcdá  |
| Método de Cálculo pdc  |          |              |       | Darcy-Weissbach |    |      |                |      |        |      |     |      |       |        |       |
| PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS                 |          |              |       |                 |    |      |                |      |        |      |     |      |       |        |       |
| CIRCUITO: Frío Climatizadores Existentes Cafeteria y Urgencias |          |              |       |                 |    |      |                |      |        |      |     |      |       |        |       |
| UrgCaP\$1_Cl+M0_URGCA +M0_URGC.+M0_UR                          |          |              |       | 74,550          | 5  | 1,00 | 0,00           | 3,56 | 3"     | 0,69 | FE  | 3,0  | 0,028 | 9      | 0,028 |
| UrgCaP\$1_Cl+M0_URGCA M1                                       |          |              | 1     | 74,550          | 5  | 1,00 | 0,00           | 3,56 | 3"     | 0,69 | FE  | 3,3  | 0,116 | 9      | 0,144 |
| UrgCaP00_C +M1   |          | +M1          | +M1   | 74,550          | 5  | 1,00 | 0,00           | 3,56 | 3"     | 0,69 | FE  | 3,0  | 0,028 | 9      | 0,172 |
| UrgCaP00_C +M1   |          |              | 1     | 74,550          | 5  | 1,00 | 0,00           | 3,56 | 3"     | 0,69 | FE  | 5,9  | 0,137 | 9      | 0,309 |
| UrgCaP00_C +M1   |          | CL06         | 2     | 28,700          | 5  | 1,00 | 0,00           | 1,37 | 2"     | 0,62 | FE  | 3,4  | 0,100 | 12     | 0,409 |
| UrgCaP00_C +M1   |          | CL09         | 3     | 45,850          | 5  | 1,00 | 0,00           | 2,19 | 2 1/2" | 0,59 | FE  | 2,7  | 0,048 | 8      | 0,357 |
|  |          |              |       |                 |    |      |                |      |        |      |     |      |       |        |       |



| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS.              |          |              |       |                 |         |         |                |      |      |      |      |      |       |       |       |       |       |
|---|----------|--------------|-------|-----------------|---------|---------|----------------|------|------|------|------|------|-------|-------|-------|-------|-------|
| Planta  | Montante | Equipo/Local | Tramo | Potencia        | dT      | C.S     | Porc<br>glicol | Qins | DN   | V    | Mat  | Long | Pc    | Pc/m  | SPc   |       |       |
|   |          |              |       | Kw              | °C      |         | %              | l/s  | mm   | m/s  |      | m    | mcd   | mcd/m | mcd   |       |       |
| Método de Cálculo pdc   |          |              |       | Darcy-Weissbach |         |         |                |      |      |      |      |      |       |       |       |       |       |
| PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS                  |          |              |       |                 |         |         |                |      |      |      |      |      |       |       |       |       |       |
| CIRCUITO: Calor Climatizadores Existentes Cafeteria y Urgencias |          |              |       |                 |         |         |                |      |      |      |      |      |       |       |       |       |       |
| UrgCafPs1_Cl+M0_URGCA +M0_URGC, +M0_UR                          |          |              |       | 100,020         | 15      | 1,00    | 0,00           | 1,59 | 2"   | 0,72 | FE   | 3,0  | 0,039 | 13    | 0,039 |       |       |
| UrgCafPs1_Cl+M0_URGCA M1  |          |              |       | 1               | 100,020 | 15      | 1,00           | 0,00 | 1,59 | 2"   | 0,72 | FE   | 3,3   | 0,095 | 13    | 0,135 |       |
| UrgCafP00_C +M1   |          |              |       | +M1             | +M1     | 100,020 | 15             | 1,00 | 0,00 | 1,59 | 2"   | 0,72 | FE    | 3,0   | 0,039 | 13    | 0,174 |
| UrgCafP00_C +M1   |          |              |       | 1               | 100,020 | 15      | 1,00           | 0,00 | 1,59 | 2"   | 0,72 | FE   | 5,9   | 0,154 | 13    | 0,329 |       |
| UrgCafP00_C +M1   |          |              |       | CL06            | 2       | 19,300  | 15             | 1,00 | 0,00 | 0,31 | 1"   | 0,53 | FE    | 3,4   | 0,094 | 16    | 0,422 |
| UrgCafP00_C +M1   |          |              |       | CL09            | 3       | 80,720  | 15             | 1,00 | 0,00 | 1,29 | 2"   | 0,58 | FE    | 2,7   | 0,045 | 9     | 0,374 |
|   |          |              |       |                 |         |         |                |      |      |      |      |      |       |       |       |       |       |



| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS.  |                          |              |       |                 |    |      |                |      |        |      |     |      |       |       |       |
|---|--------------------------|--------------|-------|-----------------|----|------|----------------|------|--------|------|-----|------|-------|-------|-------|
| Planta  | Montante                 | Equipo/Local | Tramo | Potencia        | dT | C.S  | Porc<br>glicol | Qins | DN     | V    | Mat | Long | Pc    | Pc/m  | SPc   |
|   |                          |              |       | Kw              | °C |      | %              | l/s  | mm     | m/s  |     | m    | mca   | mca/m | mca   |
| Método de Cálculo pdc                               |                          |              |       | Darcy-Weissbach |    |      |                |      |        |      |     |      |       |       |       |
| PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS      |                          |              |       |                 |    |      |                |      |        |      |     |      |       |       |       |
| CIRCUITO: Calor Climatizador Consultas Oftalmologia |                          |              |       |                 |    |      |                |      |        |      |     |      |       |       |       |
| Consultas_CL  | +M0_CONSU+M0_CONSI+M0_CC |              |       | 60,060          | 15 | 1,00 | 0,00           | 0,96 | 1 1/2" | 0,70 | FE  | 3,0  | 0,055 | 16    | 0,055 |
| Consultas_CL  | +M0_CONSU CL0101 1       |              |       | 60,060          | 15 | 1,00 | 0,00           | 0,96 | 1 1/2" | 0,70 | FE  | 11,0 | 0,240 | 16    | 0,295 |
|   |                          |              |       |                 |    |      |                |      |        |      |     |      |       |       |       |



| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |       |                 |    |      |                |      |        |      |     |      |       |        |       |
|--|----------|--------------|-------|-----------------|----|------|----------------|------|--------|------|-----|------|-------|--------|-------|
| Planta   | Montante | Equipo/Local | Tramo | Potencia        | dT | C.S  | Porc<br>glicol | Qins | DN     | V    | Mat | Long | Pc    | Pc/m   | SPc   |
|  |          |              |       | Kw              | °C |      | %              | l/s  | mm     | m/s  |     | m    | mcdá  | mmda/m | mcdá  |
| Método de Cálculo pdc                              |          |              |       | Darcy-Weissbach |    |      |                |      |        |      |     |      |       |        |       |
| PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS     |          |              |       |                 |    |      |                |      |        |      |     |      |       |        |       |
| CIRCUITO: Frio Climatizador Consultas Oftalmologia |          |              |       |                 |    |      |                |      |        |      |     |      |       |        |       |
| Consultas_CL +M0_CONSU +M0_CONST +M0_CC            |          |              |       | 40,250          | 5  | 1,00 | 0,00           | 1,92 | 2 1/2" | 0,52 | FE  | 3,0  | 0,024 | 6      | 0,024 |
| Consultas_CL +M0_CONSU CL0101 1                    |          |              |       | 40,250          | 5  | 1,00 | 0,00           | 1,92 | 2 1/2" | 0,52 | FE  | 11,0 | 0,111 | 6      | 0,135 |
|  |          |              |       |                 |    |      |                |      |        |      |     |      |       |        |       |



# Proyecto BASICO Y DE EJECUCION FASE III HOSPITAL UNIVERSITARIO CLÍNICO SAN CARLOS

| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |                 |          |    |     |                |      |    |     |     |      |      |         |      |
|--|----------|--------------|-----------------|----------|----|-----|----------------|------|----|-----|-----|------|------|---------|------|
| Planta   | Montante | Equipo/Local | Tramo           | Potencia | dT | C.S | Porc<br>glicol | Qins | DN | V   | Mat | Long | Pc   | Pc/m    | SPc  |
|  |          |              |                 | Kw       | °C |     | %              | l/s  | mm | m/s |     | m    | mdca | mmdca/m | mdca |
| Método de Cálculo pdc                              |          |              | Darcy-Weissbach |          |    |     |                |      |    |     |     |      |      |         |      |

## PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS

### CIRCUITO: Frio Climatizadores Oftalmologia

|  |         |       |   |         |   |      |      |      |        |      |    |      |       |    |       |
|--|---------|-------|---|---------|---|------|------|------|--------|------|----|------|-------|----|-------|
| OftalmPs1_CI+M0_OFTAL1+M0_OFTAL1+M0_OF |         |       |   | 176,040 | 5 | 1,00 | 0,00 | 8,41 | 4"     | 0,97 | FE | 4,0  | 0,050 | 13 | 0,050 |
| OftalmPs1_CI+M0_OFTAL1+M1              |         |       | 1 | 176,040 | 5 | 1,00 | 0,00 | 8,41 | 4"     | 0,97 | FE | 22,3 | 0,489 | 13 | 0,539 |
| OftalmP00_CI+M1                        | +M1     | +M1   |   | 176,040 | 5 | 1,00 | 0,00 | 8,41 | 4"     | 0,97 | FE | 4,0  | 0,050 | 13 | 0,589 |
| OftalmP00_CI+M1                        | M1_1    | 1     |   | 176,040 | 5 | 1,00 | 0,00 | 8,41 | 4"     | 0,97 | FE | 5,3  | 0,211 | 13 | 0,801 |
| OftalmP01_CI+M1_1                      | +M1_1   | +M1_1 |   | 176,040 | 5 | 1,00 | 0,00 | 8,41 | 4"     | 0,97 | FE | 4,0  | 0,050 | 13 | 0,851 |
| OftalmP01_CI+M1_1                      |         | 1     |   | 176,040 | 5 | 1,00 | 0,00 | 8,41 | 4"     | 0,97 | FE | 2,8  | 0,061 | 13 | 0,912 |
| OftalmP01_CI+M1_1                      |         | 2     |   | 125,440 | 5 | 1,00 | 0,00 | 5,99 | 4"     | 0,69 | FE | 3,0  | 0,034 | 7  | 0,946 |
| OftalmP01_CI+M1_1                      |         | 3     |   | 77,810  | 5 | 1,00 | 0,00 | 3,72 | 3"     | 0,73 | FE | 4,4  | 0,096 | 10 | 1,042 |
| OftalmP01_CI+M1_1                      |         | 4     |   | 77,810  | 5 | 1,00 | 0,00 | 3,72 | 3"     | 0,73 | FE | 1,2  | 0,028 | 10 | 1,070 |
| OftalmP01_CI+M1_1                      | CL0102  | 5     |   | 52,510  | 5 | 1,00 | 0,00 | 2,51 | 2 1/2" | 0,67 | FE | 3,5  | 0,103 | 11 | 1,173 |
| OftalmP01_CI+M1_1                      | CL0105  | 6     |   | 25,300  | 5 | 1,00 | 0,00 | 1,21 | 2"     | 0,55 | FE | 3,7  | 0,059 | 10 | 1,130 |
| OftalmP01_CI+M1_1                      | CL0105P | 7     |   | 0,000   | 5 | 1,00 | 0,00 | 0,00 |        | 0,00 | FE | 3,7  | 0,000 | 0  | 1,042 |
| OftalmP01_CI+M1_1                      | CL19    | 8     |   | 47,630  | 5 | 1,00 | 0,00 | 2,28 | 2 1/2" | 0,61 | FE | 3,5  | 0,059 | 9  | 1,004 |
| OftalmP01_CI+M1_1                      |         | 9     |   | 50,600  | 5 | 1,00 | 0,00 | 2,42 | 2 1/2" | 0,65 | FE | 3,4  | 0,047 | 10 | 0,959 |
| OftalmP01_CI+M1_1                      |         | 10    |   | 50,600  | 5 | 1,00 | 0,00 | 2,42 | 2 1/2" | 0,65 | FE | 1,0  | 0,023 | 10 | 0,982 |
| OftalmP01_CI+M1_1                      |         | 11    |   | 25,300  | 5 | 1,00 | 0,00 | 1,21 | 2"     | 0,55 | FE | 0,2  | 0,013 | 10 | 0,995 |
| OftalmP01_CI+M1_1                      | CL0103P | 12    |   | 0,000   | 5 | 1,00 | 0,00 | 0,00 |        | 0,00 | FE | 5,3  | 0,000 | 0  | 0,995 |
| OftalmP01_CI+M1_1                      | CL0104  | 13    |   | 25,300  | 5 | 1,00 | 0,00 | 1,21 | 2"     | 0,55 | FE | 3,8  | 0,060 | 10 | 1,055 |
| OftalmP01_CI+M1_1                      | CL0103  | 14    |   | 25,300  | 5 | 1,00 | 0,00 | 1,21 | 2"     | 0,55 | FE | 4,2  | 0,064 | 10 | 1,046 |
| OftalmP01_CI+M1_1                      | CL0104P | 15    |   | 0,000   | 5 | 1,00 | 0,00 | 0,00 |        | 0,00 | FE | 3,8  | 0,000 | 0  | 0,959 |

|                            |      |        |                                  |
|----------------------------|------|--------|----------------------------------|
| Potencia instalada         | 176  | 177    | Kw, incluyendo pérdidas de calor |
| Coefficiente simultaneidad | 1,00 | 0,570% |                                  |

| CÁLCULO DE LA BOMBA            |       |
|--------------------------------|-------|
| PERDIDA DE CARGA MAXIMA (mdca) | 1,17  |
| PERDIDA TOTAL TUBERIAS (mdca)  | 2,3   |
| VALVULA DE CONTROL (mdca)      | 7,8   |
| BATERIA (mdca)                 | 2,6   |
| VALVULA DE EQUILIBRADO (mdca)  | 2,6   |
| FILTRO (mdca)                  | 0,4   |
| VALVULAS (mdca)                | 0,1   |
| TOTAL (mdca)                   | 15,9  |
| SEGURIDAD (mdca)               | 17,5  |
| CAUDAL (m3/h)                  | 30,45 |



# Proyecto BASICO Y DE EJECUCION FASE III HOSPITAL UNIVERSITARIO CLÍNICO SAN CARLOS

| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |       |                 |    |     |                |      |    |     |     |      |      |        |      |
|--|----------|--------------|-------|-----------------|----|-----|----------------|------|----|-----|-----|------|------|--------|------|
| Planta   | Montante | Equipo/Local | Tramo | Potencia        | dT | C.S | Porc<br>glicol | Qins | DN | V   | Mat | Long | Pc   | Pc/m   | SPc  |
|  |          |              |       | Kw              | °C |     | %              | l/s  | mm | m/s |     | m    | mdca | mmca/n | mdca |
| Método de Cálculo pdc                              |          |              |       | Darcy-Weissbach |    |     |                |      |    |     |     |      |      |        |      |

## PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS

### CIRCUITO: Calor Climatizadores Oftalmologia

|              |           |           |        |         |    |      |      |      |        |      |    |      |       |    |       |
|--------------|-----------|-----------|--------|---------|----|------|------|------|--------|------|----|------|-------|----|-------|
| OftalmPs1_CL | +M0_OFTAL | +M0_OFTAL | +M0_OF | 159,480 | 15 | 1,00 | 0,00 | 2,54 | 2 1/2" | 0,68 | FE | 4,0  | 0,035 | 9  | 0,035 |
| OftalmPs1_CL | +M0_OFTAL | M1        | 1      | 159,480 | 15 | 1,00 | 0,00 | 2,54 | 2 1/2" | 0,68 | FE | 22,3 | 0,267 | 9  | 0,302 |
| OftalmP00_CL | +M1       | +M1       | +M1    | 159,480 | 15 | 1,00 | 0,00 | 2,54 | 2 1/2" | 0,68 | FE | 4,0  | 0,035 | 9  | 0,337 |
| OftalmP00_CL | +M1       | M1_1      | 1      | 159,480 | 15 | 1,00 | 0,00 | 2,54 | 2 1/2" | 0,68 | FE | 5,3  | 0,113 | 9  | 0,449 |
| OftalmP01_CL | +M1_1     | +M1_1     | +M1_1  | 159,480 | 15 | 1,00 | 0,00 | 2,54 | 2 1/2" | 0,68 | FE | 4,0  | 0,035 | 9  | 0,484 |
| OftalmP01_CL | +M1_1     |           | 1      | 159,480 | 15 | 1,00 | 0,00 | 2,54 | 2 1/2" | 0,68 | FE | 2,8  | 0,036 | 9  | 0,520 |
| OftalmP01_CL | +M1_1     |           | 2      | 108,280 | 15 | 1,00 | 0,00 | 1,72 | 2"     | 0,78 | FE | 3,0  | 0,062 | 15 | 0,582 |
| OftalmP01_CL | +M1_1     |           | 3      | 81,680  | 15 | 1,00 | 0,00 | 1,30 | 2"     | 0,59 | FE | 4,4  | 0,070 | 9  | 0,653 |
| OftalmP01_CL | +M1_1     |           | 4      | 66,040  | 15 | 1,00 | 0,00 | 1,05 | 1 1/2" | 0,77 | FE | 1,2  | 0,040 | 19 | 0,692 |
| OftalmP01_CL | +M1_1     | CL0102    | 5      | 56,080  | 15 | 1,00 | 0,00 | 0,89 | 1 1/2" | 0,65 | FE | 3,5  | 0,104 | 14 | 0,796 |
| OftalmP01_CL | +M1_1     | CL0105    | 6      | 9,960   | 15 | 1,00 | 0,00 | 0,16 | 3/4"   | 0,43 | FE | 3,7  | 0,068 | 14 | 0,760 |
| OftalmP01_CL | +M1_1     | CL0105P   | 7      | 15,640  | 15 | 1,00 | 0,00 | 0,25 | 3/4"   | 0,68 | FE | 3,7  | 0,157 | 33 | 0,809 |
| OftalmP01_CL | +M1_1     | CL19      | 8      | 26,600  | 15 | 1,00 | 0,00 | 0,42 | 1"     | 0,73 | FE | 3,5  | 0,138 | 29 | 0,721 |
| OftalmP01_CL | +M1_1     |           | 9      | 51,200  | 15 | 1,00 | 0,00 | 0,82 | 1 1/2" | 0,59 | FE | 3,4  | 0,051 | 12 | 0,572 |
| OftalmP01_CL | +M1_1     |           | 10     | 35,560  | 15 | 1,00 | 0,00 | 0,57 | 1 1/4" | 0,56 | FE | 1,0  | 0,022 | 13 | 0,594 |
| OftalmP01_CL | +M1_1     |           | 11     | 25,600  | 15 | 1,00 | 0,00 | 0,41 | 1"     | 0,70 | FE | 0,2  | 0,021 | 27 | 0,615 |
| OftalmP01_CL | +M1_1     | CL0103P   | 12     | 15,640  | 15 | 1,00 | 0,00 | 0,25 | 3/4"   | 0,68 | FE | 5,3  | 0,241 | 33 | 0,856 |
| OftalmP01_CL | +M1_1     | CL0104    | 13     | 9,960   | 15 | 1,00 | 0,00 | 0,16 | 3/4"   | 0,43 | FE | 3,8  | 0,069 | 14 | 0,684 |
| OftalmP01_CL | +M1_1     | CL0103    | 14     | 9,960   | 15 | 1,00 | 0,00 | 0,16 | 3/4"   | 0,43 | FE | 4,2  | 0,075 | 14 | 0,669 |
| OftalmP01_CL | +M1_1     | CL0104P   | 15     | 15,640  | 15 | 1,00 | 0,00 | 0,25 | 3/4"   | 0,68 | FE | 3,8  | 0,160 | 33 | 0,732 |

|                            |      |        |                                  |
|----------------------------|------|--------|----------------------------------|
| Potencia instalada         | 159  | 163    | Kw, incluyendo pérdidas de calor |
| Coefficiente simultaneidad | 1,00 | 2,104% |                                  |

### CÁLCULO DE LA BOMBA

|                                |      |
|--------------------------------|------|
| PERDIDA DE CARGA MAXIMA (mdca) | 0,86 |
| PÉRDIDA TOTAL TUBERIAS (mdca)  | 1,7  |
| VALVULA DE CONTROL (mdca)      | 7,8  |
| BATERIA (mdca)                 | 2,6  |
| VALVULA DE EQUILIBRADO (mdca)  | 2,6  |
| FILTRO (mdca)                  | 0,4  |
| VALVULAS (mdca)                | 0,1  |
| TOTAL (mdca)                   | 15,3 |
| SEGURIDAD (mdca)               | 16,8 |
| CAUDAL (m3/h)                  | 9,34 |



# Proyecto BASICO Y DE EJECUCION FASE III HOSPITAL UNIVERSITARIO CLÍNICO SAN CARLOS

| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |                 |          |    |     |                |      |    |     |     |      |       |          |       |
|--|----------|--------------|-----------------|----------|----|-----|----------------|------|----|-----|-----|------|-------|----------|-------|
| Planta   | Montante | Equipo/Local | Tramo           | Potencia | dT | C.S | Porc<br>glicol | Qins | DN | V   | Mat | Long | Pc    | Pc/m     | SPc   |
|  |          |              |                 | Kw       | °C |     | %              | l/s  | mm | m/s |     | m    | mcdca | mmcdca/m | mcdca |
| Método de Cálculo pdc                              |          |              | Darcy-Weissbach |          |    |     |                |      |    |     |     |      |       |          |       |

## PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS

| CIRCUITO: Frio Climatizadores Pabellon C |         |        |  |           |   |      |      |        |        |      |    |      |       |    |       |
|--|---------|--------|--|-----------|---|------|------|--------|--------|------|----|------|-------|----|-------|
| Pab_C_Ps1_P.+MCLFASEII +MCLFASEI+MCLFA   |         |        |  | 3.047,670 | 5 | 1,00 | 0,00 | 145,61 | 12"    | 1,93 | FE | 4,0  | 0,051 | 13 | 0,051 |
| Pab_C_Ps1_P.+MCLFASEIII                  | 1       |        |  | 3.047,670 | 5 | 1,00 | 0,00 | 145,61 | 12"    | 1,93 | FE | 41,3 | 1,465 | 13 | 1,516 |
| Pab_C_Ps1_P.+MCLFASEIII                  | 2       |        |  | 2.647,670 | 5 | 1,00 | 0,00 | 126,50 | 10"    | 2,38 | FE | 22,0 | 0,631 | 23 | 2,147 |
| Pab_C_Ps1_P.+MCLFASEIII MSUB1            | 3       |        |  | 877,670   | 5 | 1,00 | 0,00 | 41,93  | 6"     | 2,21 | FE | 58,0 | 4,452 | 37 | 6,599 |
| Pab_C_Ps1_P.+MCLFASEIII FASE II          | 4       |        |  | 1.770,000 | 5 | 1,00 | 0,00 | 84,57  | 8"     | 2,61 | FE | 5,4  | 0,535 | 37 | 2,682 |
| Pab_C_Ps1_P.+MCLFASEIII LAVANDER 5       |         |        |  | 400,000   | 5 | 1,00 | 0,00 | 19,11  | 5"     | 1,44 | FE | 3,6  | 0,313 | 20 | 1,829 |
|  |         |        |  |           |   |      |      |        |        |      |    |      |       |    |       |
| Pab_C_P00_P+MSUB1                        | +MSUB1  | +MSUB1 |  | 877,670   | 5 | 1,00 | 0,00 | 41,93  | 8"     | 1,30 | FE | 4,0  | 0,040 | 10 | 6,639 |
| Pab_C_P01_P+MSUB1                        | +MSUB1  | +MSUB1 |  | 877,670   | 5 | 1,00 | 0,00 | 41,93  | 8"     | 1,30 | FE | 4,0  | 0,081 | 10 | 6,720 |
|  |         |        |  |           |   |      |      |        |        |      |    |      |       |    |       |
| Pab_C_P02_P+MSUB1                        | +MSUB1  | +MSUB1 |  | 877,670   | 5 | 1,00 | 0,00 | 41,93  | 6"     | 2,21 | FE | 4,0  | 0,147 | 37 | 6,867 |
| Pab_C_P02_P+MSUB1                        | 1       |        |  | 877,670   | 5 | 1,00 | 0,00 | 41,93  | 6"     | 2,21 | FE | 3,2  | 1,120 | 37 | 7,987 |
| Pab_C_P02_P+MSUB1                        | 2       |        |  | 801,640   | 5 | 1,00 | 0,00 | 38,30  | 6"     | 2,02 | FE | 2,5  | 0,391 | 31 | 8,378 |
| Pab_C_P02_P+MSUB1                        | 3       |        |  | 595,690   | 5 | 1,00 | 0,00 | 28,46  | 6"     | 1,50 | FE | 1,1  | 0,075 | 18 | 8,453 |
| Pab_C_P02_P+MSUB1                        | 4       |        |  | 499,470   | 5 | 1,00 | 0,00 | 23,86  | 6"     | 1,26 | FE | 1,4  | 0,059 | 13 | 8,512 |
| Pab_C_P02_P+MSUB1                        | 5       |        |  | 407,580   | 5 | 1,00 | 0,00 | 19,47  | 6"     | 1,03 | FE | 3,3  | 0,057 | 9  | 8,569 |
| Pab_C_P02_P+MSUB1                        | 6       |        |  | 242,140   | 5 | 1,00 | 0,00 | 11,57  | 5"     | 0,87 | FE | 7,7  | 0,130 | 8  | 8,699 |
| Pab_C_P02_P+MSUB1                        | 7       |        |  | 216,840   | 5 | 1,00 | 0,00 | 10,36  | 4"     | 1,19 | FE | 0,9  | 0,055 | 18 | 8,755 |
| Pab_C_P02_P+MSUB1                        | 8       |        |  | 192,620   | 5 | 1,00 | 0,00 | 9,20   | 4"     | 1,06 | FE | 0,3  | 0,035 | 15 | 8,790 |
| Pab_C_P02_P+MSUB1                        | 9       |        |  | 192,620   | 5 | 1,00 | 0,00 | 9,20   | 4"     | 1,06 | FE | 4,3  | 0,095 | 15 | 8,885 |
| Pab_C_P02_P+MSUB1                        | 10      |        |  | 72,790    | 5 | 1,00 | 0,00 | 3,48   | 2 1/2" | 0,94 | FE | 3,8  | 0,099 | 19 | 8,984 |
| Pab_C_P02_P+MSUB1                        | 11      |        |  | 47,490    | 5 | 1,00 | 0,00 | 2,27   | 2 1/2" | 0,61 | FE | 0,9  | 0,020 | 9  | 9,004 |
| Pab_C_P02_P+MSUB1                        | CL0212P |        |  | 0,000     | 5 | 1,00 | 0,00 | 0,00   | 0,00   | 0,00 | FE | 4,4  | 0,000 | 0  | 9,004 |
| Pab_C_P02_P+MSUB1                        | CL0206  |        |  | 47,490    | 5 | 1,00 | 0,00 | 2,27   | 2 1/2" | 0,61 | FE | 3,5  | 0,058 | 9  | 9,062 |
| Pab_C_P02_P+MSUB1                        | CL0212  |        |  | 25,300    | 5 | 1,00 | 0,00 | 1,21   | 2"     | 0,55 | FE | 4,1  | 0,063 | 10 | 9,047 |
| Pab_C_P02_P+MSUB1                        |         |        |  | 119,830   | 5 | 1,00 | 0,00 | 5,73   | 4"     | 0,66 | FE | 3,1  | 0,061 | 6  | 8,945 |
| Pab_C_P02_P+MSUB1                        | 16      |        |  | 94,530    | 5 | 1,00 | 0,00 | 4,52   | 3"     | 0,88 | FE | 4,7  | 0,090 | 14 | 9,035 |
| Pab_C_P02_P+MSUB1                        | 17      |        |  | 69,230    | 5 | 1,00 | 0,00 | 3,31   | 2 1/2" | 0,89 | FE | 0,7  | 0,037 | 18 | 9,072 |
| Pab_C_P02_P+MSUB1                        | 18      |        |  | 69,230    | 5 | 1,00 | 0,00 | 3,31   | 2 1/2" | 0,89 | FE | 7,8  | 0,162 | 18 | 9,234 |
| Pab_C_P02_P+MSUB1                        | 19      |        |  | 43,930    | 5 | 1,00 | 0,00 | 2,10   | 2 1/2" | 0,56 | FE | 0,8  | 0,017 | 8  | 9,251 |
| Pab_C_P02_P+MSUB1                        | CL0210P |        |  | 0,000     | 5 | 1,00 | 0,00 | 0,00   | 0,00   | 0,00 | FE | 4,0  | 0,000 | 0  | 9,251 |
| Pab_C_P02_P+MSUB1                        | CL0220  |        |  | 43,930    | 5 | 1,00 | 0,00 | 2,10   | 2 1/2" | 0,56 | FE | 4,5  | 0,058 | 8  | 9,308 |
| Pab_C_P02_P+MSUB1                        | CL0210  |        |  | 25,300    | 5 | 1,00 | 0,00 | 1,21   | 2"     | 0,55 | FE | 3,6  | 0,058 | 10 | 9,292 |
| Pab_C_P02_P+MSUB1                        | CL0211P |        |  | 0,000     | 5 | 1,00 | 0,00 | 0,00   | 0,00   | 0,00 | FE | 3,6  | 0,000 | 0  | 9,072 |
| Pab_C_P02_P+MSUB1                        | CL0211  |        |  | 25,300    | 5 | 1,00 | 0,00 | 1,21   | 2"     | 0,55 | FE | 3,6  | 0,058 | 10 | 9,094 |
| Pab_C_P02_P+MSUB1                        |         |        |  | 25,300    | 5 | 1,00 | 0,00 | 1,21   | 2"     | 0,55 | FE | 4,0  | 0,049 | 10 | 8,994 |
| Pab_C_P02_P+MSUB1                        | CL0213  |        |  | 25,300    | 5 | 1,00 | 0,00 | 1,21   | 2"     | 0,55 | FE | 4,2  | 0,088 | 10 | 9,082 |
| Pab_C_P02_P+MSUB1                        | CL0213P |        |  | 0,000     | 5 | 1,00 | 0,00 | 0,00   | 0,00   | 0,00 | FE | 3,6  | 0,000 | 0  | 8,994 |
| Pab_C_P02_P+MSUB1                        | CL0214P |        |  | 0,000     | 5 | 1,00 | 0,00 | 0,00   | 0,00   | 0,00 | FE | 4,1  | 0,000 | 0  | 8,790 |
| Pab_C_P02_P+MSUB1                        | CL0223  |        |  | 24,220    | 5 | 1,00 | 0,00 | 1,16   | 2"     | 0,52 | FE | 3,6  | 0,054 | 9  | 8,808 |
| Pab_C_P02_P+MSUB1                        | CL0214  |        |  | 25,300    | 5 | 1,00 | 0,00 | 1,21   | 2"     | 0,55 | FE | 4,1  | 0,063 | 10 | 8,762 |
| Pab_C_P02_P+MSUB1                        | 31      |        |  | 165,440   | 5 | 1,00 | 0,00 | 7,90   | 4"     | 0,91 | FE | 4,3  | 0,071 | 11 | 8,640 |
| Pab_C_P02_P+MSUB1                        | 32      |        |  | 114,430   | 5 | 1,00 | 0,00 | 5,47   | 4"     | 0,63 | FE | 8,4  | 0,059 | 6  | 8,699 |
| Pab_C_P02_P+MSUB1                        | 33      |        |  | 69,620    | 5 | 1,00 | 0,00 | 3,33   | 2 1/2" | 0,89 | FE | 0,4  | 0,031 | 18 | 8,730 |
| Pab_C_P02_P+MSUB1                        | CL0202  |        |  | 14,800    | 5 | 1,00 | 0,00 | 0,71   | 1 1/2" | 0,52 | FE | 14,9 | 0,214 | 11 | 8,943 |
| Pab_C_P02_P+MSUB1                        | CL0207  |        |  | 54,820    | 5 | 1,00 | 0,00 | 2,62   | 2 1/2" | 0,70 | FE | 4,1  | 0,082 | 11 | 8,812 |
| Pab_C_P02_P+MSUB1                        | CL0201  |        |  | 44,810    | 5 | 1,00 | 0,00 | 2,14   | 2 1/2" | 0,58 | FE | 3,8  | 0,054 | 8  | 8,753 |
| Pab_C_P02_P+MSUB1                        | CL0222  |        |  | 51,010    | 5 | 1,00 | 0,00 | 2,44   | 2 1/2" | 0,66 | FE | 3,8  | 0,069 | 10 | 8,709 |
| Pab_C_P02_P+MSUB1                        | CL0221  |        |  | 91,890    | 5 | 1,00 | 0,00 | 4,39   | 3"     | 0,86 | FE | 6,0  | 0,180 | 14 | 8,692 |
| Pab_C_P02_P+MSUB1                        | 39      |        |  | 96,220    | 5 | 1,00 | 0,00 | 4,60   | 3"     | 0,90 | FE | 5,2  | 0,101 | 15 | 8,554 |
| Pab_C_P02_P+MSUB1                        | 40      |        |  | 72,100    | 5 | 1,00 | 0,00 | 3,44   | 2 1/2" | 0,93 | FE | 0,1  | 0,029 | 19 | 8,583 |
| Pab_C_P02_P+MSUB1                        | 41      |        |  | 50,000    | 5 | 1,00 | 0,00 | 2,39   | 2 1/2" | 0,64 | FE | 8,2  | 0,092 | 10 | 8,675 |
| Pab_C_P02_P+MSUB1                        | CL0204  |        |  | 40,530    | 5 | 1,00 | 0,00 | 1,94   | 2 1/2" | 0,52 | FE | 6,4  | 0,082 | 7  | 8,757 |
| Pab_C_P02_P+MSUB1                        | CL0205  |        |  | 9,470     | 5 | 1,00 | 0,00 | 0,45   | 1 1/4" | 0,45 | FE | 3,6  | 0,055 | 11 | 8,730 |
| Pab_C_P02_P+MSUB1                        | CL0203  |        |  | 22,100    | 5 | 1,00 | 0,00 | 1,06   | 2"     | 0,48 | FE | 4,0  | 0,048 | 8  | 8,631 |
| Pab_C_P02_P+MSUB1                        | CL0209  |        |  | 24,120    | 5 | 1,00 | 0,00 | 1,15   | 2"     | 0,52 | FE | 3,5  | 0,052 | 9  | 8,606 |
| Pab_C_P02_P+MSUB1                        | 46      |        |  | 205,950   | 5 | 1,00 | 0,00 | 9,84   | 4"     | 1,13 | FE | 3,8  | 0,098 | 17 | 8,476 |
| Pab_C_P02_P+MSUB1                        | 47      |        |  | 75,900    | 5 | 1,00 | 0,00 | 3,63   | 3"     | 0,71 | FE | 7,3  | 0,120 | 10 | 8,597 |
| Pab_C_P02_P+MSUB1                        | 48      |        |  | 50,600    | 5 | 1,00 | 0,00 | 2,42   | 2 1/2" | 0,65 | FE | 0,6  | 0,020 | 10 | 8,616 |
| Pab_C_P02_P+MSUB1                        | 49      |        |  | 50,600    | 5 | 1,00 | 0,00 | 2,42   | 2 1/2" | 0,65 | FE | 8,2  | 0,095 | 10 | 8,711 |
| Pab_C_P02_P+MSUB1                        | 50      |        |  | 25,300    | 5 | 1,00 | 0,00 | 1,21   | 2"     | 0,55 | FE | 0,6  | 0,016 | 10 | 8,727 |
| Pab_C_P02_P+MSUB1                        | 51      |        |  | 25,300    | 5 | 1,00 | 0,00 | 1,21   | 2"     | 0,55 | FE | 7,2  | 0,081 | 10 | 8,808 |
| Pab_C_P02_P+MSUB1                        | CL0215P |        |  | 0,000     | 5 | 1,00 | 0,00 | 0,00   | 0,00   | 0,00 | FE | 5,2  | 0,000 | 0  | 8,808 |
| Pab_C_P02_P+MSUB1                        | CL0215  |        |  | 25,300    | 5 | 1,00 | 0,00 | 1,21   | 2"     | 0,55 | FE | 4,0  | 0,062 | 10 | 8,870 |
| Pab_C_P02_P+MSUB1                        | CL0216P |        |  | 0,000     | 5 | 1,00 | 0,00 | 0,00   | 0,00   | 0,00 | FE | 4,0  | 0,000 | 0  | 8,727 |
| Pab_C_P02_P+MSUB1                        | CL0216  |        |  | 25,300    | 5 | 1,00 | 0,00 | 1,21   | 2"     | 0,55 | FE | 4,0  | 0,062 | 10 | 8,773 |
| Pab_C_P02_P+MSUB1                        | CL0218P |        |  | 0,000     | 5 | 1,00 | 0,00 | 0,00   | 0,00   | 0,00 | FE | 4,0  | 0,000 | 0  | 8,616 |
| Pab_C_P02_P+MSUB1                        | CL0218  |        |  | 25,300    | 5 | 1,00 | 0,00 | 1,21   | 2"     | 0,55 | FE | 4,0  | 0,062 | 10 | 8,658 |
| Pab_C_P02_P+MSUB1                        | 58      |        |  | 130,050   | 5 | 1,00 | 0,00 | 6,21   | 4"     | 0,71 | FE | 3,7  | 0,041 | 7  | 8,518 |
| Pab_C_P02_P+MSUB1                        | 59      |        |  | 104,750   | 5 | 1,00 | 0,00 | 5,00   | 3"     | 0,98 | FE | 1,2  | 0,049 | 17 | 8,567 |
| Pab_C_P02_P+MSUB1                        | 60      |        |  | 104,750   | 5 | 1,00 | 0,00 | 5,00   | 3"     | 0,98 | FE | 0,8  | 0,042 | 17 | 8,609 |
| Pab_C_P02_P+MSUB1                        | 61      |        |  | 80,530    | 5 | 1,00 | 0,00 | 3,85   | 3"     | 0,75 | FE | 7,2  | 0,095 | 11 | 8,703 |
| Pab_C_P02_P+MSUB1                        | 62      |        |  | 55,230    | 5 | 1,00 | 0,00 | 2,64   | 2 1/2" | 0,71 | FE | 1,2  | 0,030 | 12 | 8,733 |
| Pab_C_P02_P+MSUB1                        | CL0208  |        |  | 55,230    | 5 | 1,00 | 0,00 | 2,64   | 2 1/2" | 0,71 | FE | 11,7 | 0,207 | 12 | 8,941 |
| Pab_C_P02_P+MSUB1                        | CL0217P |        |  | 0,000     | 5 | 1,00 | 0,00 | 0,00   | 0,00   | 0,00 | FE | 4,1  | 0,000 | 0  | 8,733 |
| Pab_C_P02_P+MSUB1                        | CL0217  |        |  | 25,300    | 5 | 1,00 | 0,00 | 1,21   | 2"     | 0,55 | FE | 4,1  | 0,063 | 10 | 8,766 |
| Pab_C_P02_P+MSUB1                        | CL0224  |        |  | 24,220    | 5 | 1,00 | 0,00 | 1,16   | 2"     | 0,52 | FE | 5,2  | 0,111 | 9  | 8,719 |



| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |       |                 |    |     |                |      |    |     |     |      |      |          |      |
|--|----------|--------------|-------|-----------------|----|-----|----------------|------|----|-----|-----|------|------|----------|------|
| Planta   | Montante | Equipo/Local | Tramo | Potencia        | dT | C.S | Porc<br>glicol | Qins | DN | V   | Mat | Long | Pc   | Pc/m     | SPc  |
|  |          |              |       | Kw              | °C |     | %              | l/s  | mm | m/s |     | m    | mdca | mmmdca/m | mdca |
| Método de Cálculo pdc                              |          |              |       | Darcy-Weissbach |    |     |                |      |    |     |     |      |      |          |      |

|  |         |    |  |        |   |      |      |      |    |      |    |     |       |    |       |
|--|---------|----|--|--------|---|------|------|------|----|------|----|-----|-------|----|-------|
| PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS |         |    |  |        |   |      |      |      |    |      |    |     |       |    |       |
| CIRCUITO: Frio Climatizadores Pabellon C       |         |    |  |        |   |      |      |      |    |      |    |     |       |    |       |
| Pab_C_P02_P+MSUB1                              | CL0219P | 67 |  | 0,000  | 5 | 1,00 | 0,00 | 0,00 |    | 0,00 | FE | 4,1 | 0,000 | 0  | 8,567 |
| Pab_C_P02_P+MSUB1                              | CL0219  | 68 |  | 25,300 | 5 | 1,00 | 0,00 | 1,21 | 2" | 0,55 | FE | 4,1 | 0,063 | 10 | 8,581 |
| Pab_C_P02_P+MSUB1                              | SUB1_FC | 69 |  | 76,030 | 5 | 1,00 | 0,00 | 3,63 | 3" | 0,71 | FE | 2,6 | 0,098 | 10 | 8,085 |

|                          |       |        |                                  |
|--------------------------|-------|--------|----------------------------------|
| Potencia instalada       | 3.048 | 3.055  | Kw, incluyendo pérdidas de calor |
| Coficiente simultaneidad | 1.00  | 0,228% |                                  |

| CALCULO DE LA BOMBA            |        |
|--------------------------------|--------|
| PERDIDA DE CARGA MAXIMA (mdca) | 9,31   |
| PÉRDIDA TOTAL TUBERIAS (mdca)  | 18,6   |
| VALVULA DE CONTROL (mdca)      | 7,0    |
| BATERIA (mdca)                 | 2,1    |
| VALVULA DE EQUILIBRADO (mdca)  | 2,6    |
| FILTRO (mdca)                  | 0,4    |
| VALVULAS (mdca)                | 0,1    |
| TOTAL (mdca)                   | 30,9   |
| SEGURIDAD (mdca)               | 33,9   |
| CAUDAL (m3/h)                  | 525,39 |



# Proyecto BASICO Y DE EJECUCION FASE III HOSPITAL UNIVERSITARIO CLÍNICO SAN CARLOS

| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |       |                 |    |      |                |       |        |      |     |      |       |        |       |
|--|----------|--------------|-------|-----------------|----|------|----------------|-------|--------|------|-----|------|-------|--------|-------|
| Planta   | Montante | Equipo/Local | Tramo | Potencia        | dT | C.S  | Porc<br>glicol | Qins  | DN     | V    | Mat | Long | Pc    | Pc/m   | SPc   |
|  |          |              |       | Kw              | °C |      | %              | l/s   | mm     | m/s  |     | m    | mcd   | mmcd/m | mcd   |
| Método de Cálculo pdc                              |          |              |       | Darcy-Weissbach |    |      |                |       |        |      |     |      |       |        |       |
| PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS     |          |              |       |                 |    |      |                |       |        |      |     |      |       |        |       |
| CIRCUITO: Calor Climatizadores Pabellon C          |          |              |       |                 |    |      |                |       |        |      |     |      |       |        |       |
| Pab_C_Ps1_P.+MCLFASEII +MCLFASEI+MCLFA             |          |              |       | 3.208,810       | 15 | 1,00 | 0,00           | 51,10 | 8"     | 1,58 | FE  | 4,0  | 0,047 | 12     | 0,047 |
| Pab_C_Ps1_P.+MCLFASEIII                            | 1        |              |       | 3.208,810       | 15 | 1,00 | 0,00           | 51,10 | 8"     | 1,58 | FE  | 41,3 | 1,038 | 12     | 1,085 |
| Pab_C_Ps1_P.+MCLFASEIII                            | 2        |              |       | 3.208,810       | 15 | 1,00 | 0,00           | 51,10 | 8"     | 1,58 | FE  | 22,0 | 0,304 | 12     | 1,389 |
| Pab_C_Ps1_P.+MCLFASEII MSUB1                       | 3        |              |       | 884,810         | 15 | 1,00 | 0,00           | 14,09 | 5"     | 1,06 | FE  | 58,0 | 1,041 | 9      | 2,430 |
| Pab_C_Ps1_P.+MCLFASEII FASE II                     | 4        |              |       | 2.324,000       | 15 | 1,00 | 0,00           | 37,01 | 6"     | 1,95 | FE  | 5,4  | 0,293 | 24     | 1,682 |
| Pab_C_Ps1_P.+MCLFASEII LAVANDER 5                  |          |              |       | 0,000           | 15 | 1,00 | 0,00           | 0,00  |        | 0,00 | FE  | 3,6  | 0,000 | 0      | 1,085 |
| Pab_C_P00_P+MSUB1                                  | +MSUB1   | +MSUB1       |       | 884,810         | 15 | 1,00 | 0,00           | 14,09 | 5"     | 1,06 | FE  | 4,0  | 0,038 | 9      | 2,468 |
| Pab_C_P01_P+MSUB1                                  | +MSUB1   | +MSUB1       |       | 884,810         | 15 | 1,00 | 0,00           | 14,09 | 5"     | 1,06 | FE  | 4,0  | 0,062 | 9      | 2,530 |
| Pab_C_P02_P+MSUB1                                  | +MSUB1   | +MSUB1       |       | 884,810         | 15 | 1,00 | 0,00           | 14,09 | 5"     | 1,06 | FE  | 4,0  | 0,038 | 9      | 2,567 |
| Pab_C_P02_P+MSUB1                                  | 1        |              |       | 884,810         | 15 | 1,00 | 0,00           | 14,09 | 5"     | 1,06 | FE  | 3,2  | 0,244 | 9      | 2,812 |
| Pab_C_P02_P+MSUB1                                  | 2        |              |       | 826,310         | 15 | 1,00 | 0,00           | 13,16 | 5"     | 0,99 | FE  | 2,5  | 0,091 | 8      | 2,902 |
| Pab_C_P02_P+MSUB1                                  | 3        |              |       | 625,060         | 15 | 1,00 | 0,00           | 9,95  | 4"     | 1,14 | FE  | 1,1  | 0,044 | 14     | 2,946 |
| Pab_C_P02_P+MSUB1                                  | 4        |              |       | 485,960         | 15 | 1,00 | 0,00           | 7,74  | 4"     | 0,89 | FE  | 1,4  | 0,031 | 9      | 2,976 |
| Pab_C_P02_P+MSUB1                                  | 5        |              |       | 397,880         | 15 | 1,00 | 0,00           | 6,34  | 4"     | 0,73 | FE  | 3,3  | 0,032 | 6      | 3,009 |
| Pab_C_P02_P+MSUB1                                  | 6        |              |       | 236,150         | 15 | 1,00 | 0,00           | 3,76  | 2 1/2" | 1,01 | FE  | 7,7  | 0,220 | 18     | 3,229 |
| Pab_C_P02_P+MSUB1                                  | 7        |              |       | 226,190         | 15 | 1,00 | 0,00           | 3,60  | 2 1/2" | 0,97 | FE  | 0,9  | 0,038 | 17     | 3,267 |
| Pab_C_P02_P+MSUB1                                  | 8        |              |       | 203,440         | 15 | 1,00 | 0,00           | 3,24  | 2 1/2" | 0,87 | FE  | 0,3  | 0,023 | 14     | 3,289 |
| Pab_C_P02_P+MSUB1                                  | 9        |              |       | 187,800         | 15 | 1,00 | 0,00           | 2,99  | 2 1/2" | 0,80 | FE  | 4,3  | 0,067 | 12     | 3,357 |
| Pab_C_P02_P+MSUB1                                  | 10       |              |       | 71,500          | 15 | 1,00 | 0,00           | 1,14  | 2"     | 0,52 | FE  | 3,8  | 0,034 | 7      | 3,391 |
| Pab_C_P02_P+MSUB1                                  | 11       |              |       | 61,540          | 15 | 1,00 | 0,00           | 0,98  | 1 1/2" | 0,71 | FE  | 0,9  | 0,030 | 17     | 3,420 |
| Pab_C_P02_P+MSUB1                                  | CL0212P  |              |       | 15,640          | 15 | 1,00 | 0,00           | 0,25  | 1"     | 0,43 | FE  | 4,4  | 0,074 | 11     | 3,494 |
| Pab_C_P02_P+MSUB1                                  | CL0206   |              |       | 45,900          | 15 | 1,00 | 0,00           | 0,73  | 1 1/2" | 0,53 | FE  | 3,5  | 0,053 | 10     | 3,473 |
| Pab_C_P02_P+MSUB1                                  | CL0212   |              |       | 9,960           | 15 | 1,00 | 0,00           | 0,16  | 3/4"   | 0,43 | FE  | 4,1  | 0,073 | 14     | 3,464 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 116,300         | 15 | 1,00 | 0,00           | 1,85  | 2"     | 0,84 | FE  | 3,1  | 0,113 | 17     | 3,470 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 90,700          | 15 | 1,00 | 0,00           | 1,44  | 2"     | 0,65 | FE  | 4,7  | 0,063 | 11     | 3,532 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 80,740          | 15 | 1,00 | 0,00           | 1,29  | 2"     | 0,58 | FE  | 0,7  | 0,016 | 9      | 3,548 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 65,100          | 15 | 1,00 | 0,00           | 1,04  | 1 1/2" | 0,76 | FE  | 7,8  | 0,162 | 19     | 3,710 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 55,140          | 15 | 1,00 | 0,00           | 0,88  | 1 1/2" | 0,64 | FE  | 0,8  | 0,023 | 14     | 3,733 |
| Pab_C_P02_P+MSUB1                                  | CL0210P  |              |       | 15,640          | 15 | 1,00 | 0,00           | 0,25  | 1"     | 0,43 | FE  | 4,0  | 0,070 | 11     | 3,804 |
| Pab_C_P02_P+MSUB1                                  | CL0220   |              |       | 39,500          | 15 | 1,00 | 0,00           | 0,63  | 1 1/4" | 0,62 | FE  | 4,5  | 0,096 | 16     | 3,829 |
| Pab_C_P02_P+MSUB1                                  | CL0210   |              |       | 9,960           | 15 | 1,00 | 0,00           | 0,16  | 3/4"   | 0,43 | FE  | 3,6  | 0,066 | 14     | 3,776 |
| Pab_C_P02_P+MSUB1                                  | CL0211P  |              |       | 15,640          | 15 | 1,00 | 0,00           | 0,25  | 1"     | 0,43 | FE  | 3,6  | 0,052 | 11     | 3,600 |
| Pab_C_P02_P+MSUB1                                  | CL0211   |              |       | 9,960           | 15 | 1,00 | 0,00           | 0,16  | 3/4"   | 0,43 | FE  | 3,6  | 0,066 | 14     | 3,598 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 25,600          | 15 | 1,00 | 0,00           | 0,41  | 1 1/4" | 0,40 | FE  | 4,0  | 0,033 | 7      | 3,502 |
| Pab_C_P02_P+MSUB1                                  | CL0213   |              |       | 9,960           | 15 | 1,00 | 0,00           | 0,16  | 3/4"   | 0,43 | FE  | 4,2  | 0,089 | 14     | 3,592 |
| Pab_C_P02_P+MSUB1                                  | CL0213P  |              |       | 15,640          | 15 | 1,00 | 0,00           | 0,25  | 1"     | 0,43 | FE  | 3,6  | 0,052 | 11     | 3,555 |
| Pab_C_P02_P+MSUB1                                  | CL0214P  |              |       | 15,640          | 15 | 1,00 | 0,00           | 0,25  | 1"     | 0,43 | FE  | 4,1  | 0,058 | 11     | 3,347 |
| Pab_C_P02_P+MSUB1                                  | CL0223   |              |       | 22,750          | 15 | 1,00 | 0,00           | 0,36  | 1 1/4" | 0,36 | FE  | 3,6  | 0,029 | 6      | 3,296 |
| Pab_C_P02_P+MSUB1                                  | CL0214   |              |       | 9,960           | 15 | 1,00 | 0,00           | 0,16  | 3/4"   | 0,43 | FE  | 4,1  | 0,073 | 14     | 3,302 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 161,730         | 15 | 1,00 | 0,00           | 2,58  | 2 1/2" | 0,69 | FE  | 4,3  | 0,051 | 9      | 3,059 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 120,900         | 15 | 1,00 | 0,00           | 1,93  | 2"     | 0,87 | FE  | 8,4  | 0,176 | 19     | 3,235 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 70,000          | 15 | 1,00 | 0,00           | 1,11  | 2"     | 0,51 | FE  | 0,4  | 0,010 | 7      | 3,245 |
| Pab_C_P02_P+MSUB1                                  | CL0202   |              |       | 14,800          | 15 | 1,00 | 0,00           | 0,24  | 1"     | 0,41 | FE  | 14,9 | 0,170 | 10     | 3,415 |
| Pab_C_P02_P+MSUB1                                  | CL0207   |              |       | 55,200          | 15 | 1,00 | 0,00           | 0,88  | 1 1/2" | 0,64 | FE  | 4,1  | 0,082 | 14     | 3,327 |
| Pab_C_P02_P+MSUB1                                  | CL0201   |              |       | 50,900          | 15 | 1,00 | 0,00           | 0,81  | 1 1/2" | 0,59 | FE  | 3,8  | 0,068 | 12     | 3,303 |
| Pab_C_P02_P+MSUB1                                  | CL0222   |              |       | 40,830          | 15 | 1,00 | 0,00           | 0,65  | 1 1/4" | 0,64 | FE  | 3,8  | 0,090 | 17     | 3,149 |
| Pab_C_P02_P+MSUB1                                  | CL0221   |              |       | 88,080          | 15 | 1,00 | 0,00           | 1,40  | 2"     | 0,64 | FE  | 6,0  | 0,111 | 10     | 3,088 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 139,100         | 15 | 1,00 | 0,00           | 2,22  | 2 1/2" | 0,60 | FE  | 5,2  | 0,044 | 7      | 2,990 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 92,900          | 15 | 1,00 | 0,00           | 1,48  | 2"     | 0,67 | FE  | 0,1  | 0,014 | 11     | 3,004 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 49,800          | 15 | 1,00 | 0,00           | 0,79  | 1 1/2" | 0,58 | FE  | 8,2  | 0,103 | 11     | 3,107 |
| Pab_C_P02_P+MSUB1                                  | CL0204   |              |       | 31,300          | 15 | 1,00 | 0,00           | 0,50  | 1 1/4" | 0,49 | FE  | 6,4  | 0,098 | 10     | 3,205 |
| Pab_C_P02_P+MSUB1                                  | CL0205   |              |       | 18,500          | 15 | 1,00 | 0,00           | 0,29  | 1"     | 0,51 | FE  | 3,6  | 0,072 | 15     | 3,179 |
| Pab_C_P02_P+MSUB1                                  | CL0203   |              |       | 43,100          | 15 | 1,00 | 0,00           | 0,69  | 1 1/4" | 0,68 | FE  | 4,0  | 0,103 | 18     | 3,107 |
| Pab_C_P02_P+MSUB1                                  | CL0209   |              |       | 46,200          | 15 | 1,00 | 0,00           | 0,74  | 1 1/2" | 0,54 | FE  | 3,5  | 0,054 | 10     | 3,044 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 201,250         | 15 | 1,00 | 0,00           | 3,21  | 2 1/2" | 0,86 | FE  | 3,8  | 0,069 | 13     | 2,971 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 76,800          | 15 | 1,00 | 0,00           | 1,22  | 2"     | 0,55 | FE  | 7,3  | 0,087 | 8      | 3,058 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 66,840          | 15 | 1,00 | 0,00           | 1,06  | 1 1/2" | 0,78 | FE  | 0,6  | 0,029 | 20     | 3,087 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 51,200          | 15 | 1,00 | 0,00           | 0,82  | 1 1/2" | 0,59 | FE  | 8,2  | 0,109 | 12     | 3,196 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 41,240          | 15 | 1,00 | 0,00           | 0,66  | 1 1/4" | 0,65 | FE  | 0,6  | 0,023 | 17     | 3,219 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 25,600          | 15 | 1,00 | 0,00           | 0,41  | 1 1/4" | 0,40 | FE  | 7,2  | 0,056 | 7      | 3,274 |
| Pab_C_P02_P+MSUB1                                  | CL0215P  |              |       | 15,640          | 15 | 1,00 | 0,00           | 0,25  | 1"     | 0,43 | FE  | 5,2  | 0,084 | 11     | 3,358 |
| Pab_C_P02_P+MSUB1                                  | CL0215   |              |       | 9,960           | 15 | 1,00 | 0,00           | 0,16  | 3/4"   | 0,43 | FE  | 4,0  | 0,071 | 14     | 3,346 |
| Pab_C_P02_P+MSUB1                                  | CL0216P  |              |       | 15,640          | 15 | 1,00 | 0,00           | 0,25  | 1"     | 0,43 | FE  | 4,0  | 0,056 | 11     | 3,275 |
| Pab_C_P02_P+MSUB1                                  | CL0216   |              |       | 9,960           | 15 | 1,00 | 0,00           | 0,16  | 3/4"   | 0,43 | FE  | 4,0  | 0,071 | 14     | 3,267 |
| Pab_C_P02_P+MSUB1                                  | CL0218P  |              |       | 15,640          | 15 | 1,00 | 0,00           | 0,25  | 1"     | 0,43 | FE  | 4,0  | 0,056 | 11     | 3,143 |
| Pab_C_P02_P+MSUB1                                  | CL0218   |              |       | 9,960           | 15 | 1,00 | 0,00           | 0,16  | 3/4"   | 0,43 | FE  | 4,0  | 0,071 | 14     | 3,129 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 124,450         | 15 | 1,00 | 0,00           | 1,98  | 2"     | 0,90 | FE  | 3,7  | 0,093 | 20     | 3,065 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 114,490         | 15 | 1,00 | 0,00           | 1,82  | 2"     | 0,83 | FE  | 1,2  | 0,038 | 17     | 3,103 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 98,850          | 15 | 1,00 | 0,00           | 1,57  | 2"     | 0,71 | FE  | 0,8  | 0,024 | 13     | 3,127 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 76,100          | 15 | 1,00 | 0,00           | 1,21  | 2"     | 0,55 | FE  | 7,2  | 0,066 | 8      | 3,193 |
| Pab_C_P02_P+MSUB1                                  |          |              |       | 66,140          | 15 | 1,00 | 0,00           | 1,05  | 1 1/2" | 0,77 | FE  | 1,2  | 0,039 | 19     | 3,232 |
| Pab_C_P02_P+MSUB1                                  | CL0208   |              |       | 50,500          | 15 | 1,00 | 0,00           | 0,80  | 1 1/2" | 0,59 | FE  | 11,7 | 0,182 | 12     | 3,414 |
| Pab_C_P02_P+MSUB1                                  | CL0217P  |              |       | 15,640          | 15 | 1,00 | 0,00           | 0,25  | 1"     | 0,43 | FE  | 4,1  | 0,057 | 11     | 3,289 |
| Pab_C_P02_P+MSUB1                                  | CL0217   |              |       | 9,960           | 15 | 1,00 | 0,00           | 0,16  | 3/4"   | 0,43 | FE  | 4,1  | 0,073 | 14     | 3,265 |
| Pab_C_P02_P+MSUB1                                  | CL0224   |              |       | 22,750          | 15 | 1,00 | 0,00           | 0,36  | 1 1/4" | 0,36 | FE  | 5,2  | 0,056 | 6      | 3,183 |



| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |       |                 |    |     |                |      |    |     |     |      |      |          |      |
|--|----------|--------------|-------|-----------------|----|-----|----------------|------|----|-----|-----|------|------|----------|------|
| Planta   | Montante | Equipo/Local | Tramo | Potencia        | dT | C.S | Porc<br>glicol | Qins | DN | V   | Mat | Long | Pc   | Pc/m     | SPc  |
|  |          |              |       | Kw              | °C |     | %              | l/s  | mm | m/s |     | m    | mdca | mmmdca/m | mdca |
| Método de Cálculo pdc                              |          |              |       | Darcy-Weissbach |    |     |                |      |    |     |     |      |      |          |      |

|  |         |    |  |        |    |      |      |      |        |      |    |     |       |    |       |
|--|---------|----|--|--------|----|------|------|------|--------|------|----|-----|-------|----|-------|
| PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS |         |    |  |        |    |      |      |      |        |      |    |     |       |    |       |
| CIRCUITO: Calor Climatizadores Pabellon C      |         |    |  |        |    |      |      |      |        |      |    |     |       |    |       |
| Pab_C_P02_P+MSUB1                              | CL0219P | 67 |  | 15,640 | 15 | 1,00 | 0,00 | 0,25 | 1"     | 0,43 | FE | 4,1 | 0,057 | 11 | 3,160 |
| Pab_C_P02_P+MSUB1                              | CL0219  | 68 |  | 9,960  | 15 | 1,00 | 0,00 | 0,16 | 3/4"   | 0,43 | FE | 4,1 | 0,073 | 14 | 3,138 |
| Pab_C_P02_P+MSUB1                              | SUB1_FC | 69 |  | 58,500 | 15 | 1,00 | 0,00 | 0,93 | 1 1/2" | 0,68 | FE | 2,6 | 0,075 | 15 | 2,887 |

|                            |       |        |                                  |
|----------------------------|-------|--------|----------------------------------|
| Potencia instalada         | 3.209 | 3.229  | Kw, incluyendo pérdidas de calor |
| Coefficiente simultaneidad | 1,00  | 0,614% |                                  |

| CALCULO DE LA BOMBA            |        |
|--------------------------------|--------|
| PERDIDA DE CARGA MAXIMA (mdca) | 3,83   |
| PÉRDIDA TOTAL TUBERIAS (mdca)  | 7,7    |
| VALVULA DE CONTROL (mdca)      | 5,4    |
| BATERIA (mdca)                 | 1,0    |
| VALVULA DE EQUILIBRADO (mdca)  | 2,6    |
| FILTRO (mdca)                  | 0,4    |
| VALVULAS (mdca)                | 0,1    |
| TOTAL (mdca)                   | 17,2   |
| SEGURIDAD (mdca)               | 18,9   |
| CAUDAL (m3/h)                  | 183,10 |



# Proyecto BASICO Y DE EJECUCION FASE III HOSPITAL UNIVERSITARIO CLÍNICO SAN CARLOS

| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |       |                 |    |     |                |      |    |     |     |      |      |         |      |
|--|----------|--------------|-------|-----------------|----|-----|----------------|------|----|-----|-----|------|------|---------|------|
| Planta   | Montante | Equipo/Local | Tramo | Potencia        | dT | C.S | Porc<br>glicol | Qins | DN | V   | Mat | Long | Pc   | Pc/m    | SPc  |
|  |          |              |       | Kw              | °C |     | %              | l/s  | mm | m/s |     | m    | mdca | mmdca/m | mdca |
| Método de Cálculo pdc                              |          |              |       | Darcy-Weissbach |    |     |                |      |    |     |     |      |      |         |      |

## PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS

### CIRCUITO: Frio Fancoils Subcentral 02

|                       |                 |    |  |        |   |      |      |      |        |      |    |      |       |    |       |
|-----------------------|-----------------|----|--|--------|---|------|------|------|--------|------|----|------|-------|----|-------|
| OftalmPs1_FC+M0FC_OFT | +M0FC_OFT+M0FC_ |    |  | 48,143 | 5 | 1,00 | 0,00 | 2,30 | 2 1/2" | 0,62 | FE | 4,0  | 0,036 | 9  | 0,036 |
| OftalmPs1_FC+M0FC_OFT | M1FC_OFT        | 1  |  | 48,143 | 5 | 1,00 | 0,00 | 2,30 | 2 1/2" | 0,62 | FE | 9,9  | 0,191 | 9  | 0,227 |
| OftalmP00_FC+M1FC_OFT | +M1FC_OFT+M1FC_ |    |  | 48,143 | 5 | 1,00 | 0,00 | 2,30 | 2 1/2" | 0,62 | FE | 4,0  | 0,036 | 9  | 0,263 |
| OftalmP00_FC+M1FC_OFT |                 | 1  |  | 48,143 | 5 | 1,00 | 0,00 | 2,30 | 2 1/2" | 0,62 | FE | 3,0  | 0,095 | 9  | 0,358 |
| OftalmP00_FC+M1FC_OFT |                 | 2  |  | 44,300 | 5 | 1,00 | 0,00 | 2,12 | 2 1/2" | 0,57 | FE | 2,0  | 0,026 | 8  | 0,384 |
| OftalmP00_FC+M1FC_OFT |                 | 3  |  | 43,540 | 5 | 1,00 | 0,00 | 2,08 | 2 1/2" | 0,56 | FE | 0,3  | 0,012 | 7  | 0,397 |
| OftalmP00_FC+M1FC_OFT |                 | 4  |  | 3,637  | 5 | 1,00 | 0,00 | 0,17 | 1"     | 0,30 | FE | 3,9  | 0,031 | 7  | 0,427 |
| OftalmP00_FC+M1FC_OFT | FC0101 18       | 5  |  | 2,870  | 5 | 1,00 | 0,00 | 0,14 | 3/4"   | 0,37 | FE | 4,4  | 0,087 | 14 | 0,514 |
| OftalmP00_FC+M1FC_OFT | FC0101 17       | 6  |  | 0,768  | 5 | 1,00 | 0,00 | 0,04 | 1/2"   | 0,18 | FE | 2,3  | 0,016 | 5  | 0,443 |
| OftalmP00_FC+M1FC_OFT |                 | 7  |  | 39,903 | 5 | 1,00 | 0,00 | 1,91 | 2 1/2" | 0,51 | FE | 2,8  | 0,026 | 6  | 0,423 |
| OftalmP00_FC+M1FC_OFT |                 | 8  |  | 38,578 | 5 | 1,00 | 0,00 | 1,84 | 2 1/2" | 0,50 | FE | 6,3  | 0,046 | 6  | 0,469 |
| OftalmP00_FC+M1FC_OFT |                 | 9  |  | 35,065 | 5 | 1,00 | 0,00 | 1,68 | 2"     | 0,76 | FE | 0,8  | 0,033 | 18 | 0,502 |
| OftalmP00_FC+M1FC_OFT |                 | 10 |  | 32,245 | 5 | 1,00 | 0,00 | 1,54 | 2"     | 0,70 | FE | 10,8 | 0,218 | 15 | 0,719 |
| OftalmP00_FC+M1FC_OFT |                 | 11 |  | 28,275 | 5 | 1,00 | 0,00 | 1,35 | 2"     | 0,61 | FE | 0,9  | 0,023 | 12 | 0,742 |
| OftalmP00_FC+M1FC_OFT |                 | 12 |  | 27,579 | 5 | 1,00 | 0,00 | 1,32 | 2"     | 0,60 | FE | 3,4  | 0,051 | 11 | 0,793 |
| OftalmP00_FC+M1FC_OFT |                 | 13 |  | 26,523 | 5 | 1,00 | 0,00 | 1,27 | 2"     | 0,57 | FE | 3,0  | 0,043 | 11 | 0,836 |
| OftalmP00_FC+M1FC_OFT |                 | 14 |  | 25,687 | 5 | 1,00 | 0,00 | 1,23 | 2"     | 0,56 | FE | 2,5  | 0,036 | 10 | 0,872 |
| OftalmP00_FC+M1FC_OFT |                 | 15 |  | 10,275 | 5 | 1,00 | 0,00 | 0,49 | 1 1/4" | 0,48 | FE | 11,5 | 0,209 | 12 | 1,080 |
| OftalmP00_FC+M1FC_OFT | FC0101 24       | 16 |  | 5,137  | 5 | 1,00 | 0,00 | 0,25 | 1"     | 0,42 | FE | 3,0  | 0,056 | 13 | 1,136 |
| OftalmP00_FC+M1FC_OFT | FC0101 24       | 17 |  | 5,137  | 5 | 1,00 | 0,00 | 0,25 | 1"     | 0,42 | FE | 2,8  | 0,053 | 13 | 1,134 |
| OftalmP00_FC+M1FC_OFT |                 | 18 |  | 15,412 | 5 | 1,00 | 0,00 | 0,74 | 1 1/2" | 0,54 | FE | 10,0 | 0,134 | 12 | 1,006 |
| OftalmP00_FC+M1FC_OFT |                 | 19 |  | 10,275 | 5 | 1,00 | 0,00 | 0,49 | 1 1/4" | 0,48 | FE | 11,2 | 0,186 | 12 | 1,191 |
| OftalmP00_FC+M1FC_OFT | FC0101 24       | 20 |  | 5,137  | 5 | 1,00 | 0,00 | 0,25 | 1"     | 0,42 | FE | 3,7  | 0,064 | 13 | 1,256 |
| OftalmP00_FC+M1FC_OFT | FC0101 24       | 21 |  | 5,137  | 5 | 1,00 | 0,00 | 0,25 | 1"     | 0,42 | FE | 3,5  | 0,062 | 13 | 1,253 |
| OftalmP00_FC+M1FC_OFT | FC0101 24       | 22 |  | 5,137  | 5 | 1,00 | 0,00 | 0,25 | 1"     | 0,42 | FE | 1,1  | 0,030 | 13 | 1,036 |
| OftalmP00_FC+M1FC_OFT | FC0101 21       | 23 |  | 0,835  | 5 | 1,00 | 0,00 | 0,04 | 1/2"   | 0,20 | FE | 2,5  | 0,019 | 6  | 0,855 |
| OftalmP00_FC+M1FC_OFT | FC0101 03       | 24 |  | 1,057  | 5 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,25 | FE | 2,1  | 0,026 | 9  | 0,820 |
| OftalmP00_FC+M1FC_OFT | FC0101 04       | 25 |  | 0,696  | 5 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,17 | FE | 2,1  | 0,012 | 4  | 0,755 |
| OftalmP00_FC+M1FC_OFT | FC0101 19       | 26 |  | 3,970  | 5 | 1,00 | 0,00 | 0,19 | 1"     | 0,33 | FE | 14,6 | 0,139 | 8  | 0,858 |
| OftalmP00_FC+M1FC_OFT |                 | 27 |  | 2,820  | 5 | 1,00 | 0,00 | 0,13 | 3/4"   | 0,37 | FE | 1,9  | 0,044 | 13 | 0,546 |
| OftalmP00_FC+M1FC_OFT | FC0101 28       | 28 |  | 1,339  | 5 | 1,00 | 0,00 | 0,06 | 1/2"   | 0,32 | FE | 2,2  | 0,042 | 14 | 0,588 |
| OftalmP00_FC+M1FC_OFT | FC0101 29       | 29 |  | 1,481  | 5 | 1,00 | 0,00 | 0,07 | 1/2"   | 0,35 | FE | 1,6  | 0,040 | 17 | 0,586 |
| OftalmP00_FC+M1FC_OFT |                 | 30 |  | 3,514  | 5 | 1,00 | 0,00 | 0,17 | 3/4"   | 0,46 | FE | 3,1  | 0,071 | 20 | 0,540 |
| OftalmP00_FC+M1FC_OFT |                 | 31 |  | 1,751  | 5 | 1,00 | 0,00 | 0,08 | 3/4"   | 0,23 | FE | 2,7  | 0,028 | 5  | 0,568 |
| OftalmP00_FC+M1FC_OFT | FC0101 06       | 32 |  | 0,695  | 5 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,17 | FE | 1,8  | 0,011 | 4  | 0,579 |
| OftalmP00_FC+M1FC_OFT | FC0101 07       | 33 |  | 1,056  | 5 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,25 | FE | 1,2  | 0,017 | 9  | 0,586 |
| OftalmP00_FC+M1FC_OFT |                 | 34 |  | 1,762  | 5 | 1,00 | 0,00 | 0,08 | 3/4"   | 0,23 | FE | 1,2  | 0,014 | 6  | 0,555 |
| OftalmP00_FC+M1FC_OFT | FC0101 09       | 35 |  | 0,701  | 5 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,17 | FE | 1,7  | 0,010 | 4  | 0,565 |
| OftalmP00_FC+M1FC_OFT | FC0101 08       | 36 |  | 1,061  | 5 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,25 | FE | 1,7  | 0,022 | 9  | 0,577 |
| OftalmP00_FC+M1FC_OFT | FC0101 27       | 37 |  | 1,325  | 5 | 1,00 | 0,00 | 0,06 | 1/2"   | 0,31 | FE | 2,5  | 0,046 | 14 | 0,469 |
| OftalmP00_FC+M1FC_OFT | FC0101 16       | 38 |  | 0,760  | 5 | 1,00 | 0,00 | 0,04 | 1/2"   | 0,18 | FE | 2,3  | 0,015 | 5  | 0,400 |
| OftalmP00_FC+M1FC_OFT |                 | 39 |  | 3,843  | 5 | 1,00 | 0,00 | 0,18 | 1"     | 0,32 | FE | 1,1  | 0,013 | 8  | 0,371 |
| OftalmP00_FC+M1FC_OFT |                 | 40 |  | 3,125  | 5 | 1,00 | 0,00 | 0,15 | 3/4"   | 0,41 | FE | 1,4  | 0,029 | 16 | 0,400 |
| OftalmP00_FC+M1FC_OFT |                 | 41 |  | 1,386  | 5 | 1,00 | 0,00 | 0,07 | 1/2"   | 0,33 | FE | 5,1  | 0,105 | 15 | 0,505 |
| OftalmP00_FC+M1FC_OFT | FC0101 13       | 42 |  | 0,692  | 5 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,16 | FE | 1,1  | 0,008 | 4  | 0,513 |
| OftalmP00_FC+M1FC_OFT | FC0101 14       | 43 |  | 0,694  | 5 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,17 | FE | 1,5  | 0,010 | 4  | 0,514 |
| OftalmP00_FC+M1FC_OFT |                 | 44 |  | 1,738  | 5 | 1,00 | 0,00 | 0,08 | 3/4"   | 0,23 | FE | 4,0  | 0,029 | 5  | 0,429 |
| OftalmP00_FC+M1FC_OFT | FC0101 10       | 45 |  | 0,688  | 5 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,16 | FE | 1,8  | 0,011 | 4  | 0,440 |
| OftalmP00_FC+M1FC_OFT | FC0101 11       | 46 |  | 1,051  | 5 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,25 | FE | 1,2  | 0,018 | 9  | 0,447 |
| OftalmP00_FC+M1FC_OFT | FC0101 15       | 47 |  | 0,718  | 5 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,17 | FE | 2,3  | 0,014 | 5  | 0,385 |

|                            |      |        |                                  |
|----------------------------|------|--------|----------------------------------|
| Potencia instalada         | 48   | 50     | Kw, incluyendo pérdidas de calor |
| Coefficiente simultaneidad | 1,00 | 3,721% |                                  |

| CALCULO DE LA BOMBA            |      |
|--------------------------------|------|
| PERDIDA DE CARGA MAXIMA (mdca) | 1,26 |
| PÉRDIDA TOTAL TUBERIAS (mdca)  | 2,5  |
| VALVULA DE CONTROL (mdca)      | 5,4  |
| BATERIA (mdca)                 | 1,0  |
| VALVULA DE EQUILIBRADO (mdca)  | 2,6  |
| FILTRO (mdca)                  | 0,4  |
| VALVULAS (mdca)                | 0,1  |
| TOTAL (mdca)                   | 12,1 |
| SEGURIDAD (mdca)               | 13,3 |
| CAUDAL (m3/h)                  | 8,59 |



# Proyecto BASICO Y DE EJECUCION FASE III HOSPITAL UNIVERSITARIO CLÍNICO SAN CARLOS

| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |                 |          |    |     |             |      |    |     |     |      |     |       |     |
|--|----------|--------------|-----------------|----------|----|-----|-------------|------|----|-----|-----|------|-----|-------|-----|
| Planta   | Montante | Equipo/Local | Tramo           | Potencia | dT | C.S | Porc glicol | Qins | DN | V   | Mat | Long | Pc  | Pc/m  | SPc |
|  |          |              |                 | Kw       | °C |     | %           | l/s  | mm | m/s |     | m    | mca | mca/m | mca |
| Método de Cálculo pdc                              |          |              | Darcy-Weissbach |          |    |     |             |      |    |     |     |      |     |       |     |

## PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS

### CIRCUITO: Calor Fancoils Subcentral 02

|                                       |  |  |  |        |    |      |      |      |        |      |    |      |       |    |       |
|---------------------------------------|--|--|--|--------|----|------|------|------|--------|------|----|------|-------|----|-------|
| OftalmPs1_FC+M0FC_OFT +M0FC_OFT+M0FC_ |  |  |  | 36,460 | 15 | 1,00 | 0,00 | 0,58 | 1 1/4" | 0,57 | FE | 4,0  | 0,057 | 14 | 0,057 |
| OftalmPs1_FC+M0FC_OFT M1FC_OFT 1      |  |  |  | 36,460 | 15 | 1,00 | 0,00 | 0,58 | 1 1/4" | 0,57 | FE | 9,9  | 0,226 | 14 | 0,283 |
| OftalmP00_FC+M1FC_OFT +M1FC_OFT+M1FC_ |  |  |  | 36,460 | 15 | 1,00 | 0,00 | 0,58 | 1 1/4" | 0,57 | FE | 4,0  | 0,057 | 14 | 0,341 |
| OftalmP00_FC+M1FC_OFT 1               |  |  |  | 36,460 | 15 | 1,00 | 0,00 | 0,58 | 1 1/4" | 0,57 | FE | 3,0  | 0,099 | 14 | 0,440 |
| OftalmP00_FC+M1FC_OFT 2               |  |  |  | 28,960 | 15 | 1,00 | 0,00 | 0,46 | 1 1/4" | 0,46 | FE | 2,0  | 0,026 | 9  | 0,465 |
| OftalmP00_FC+M1FC_OFT 3               |  |  |  | 27,460 | 15 | 1,00 | 0,00 | 0,44 | 1 1/4" | 0,43 | FE | 0,3  | 0,008 | 8  | 0,474 |
| OftalmP00_FC+M1FC_OFT 4               |  |  |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 3,9  | 0,030 | 7  | 0,504 |
| OftalmP00_FC+M1FC_OFT FC0101 18 5     |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 4,4  | 0,012 | 2  | 0,516 |
| OftalmP00_FC+M1FC_OFT FC0101 17 6     |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,3  | 0,006 | 2  | 0,510 |
| OftalmP00_FC+M1FC_OFT 7               |  |  |  | 24,460 | 15 | 1,00 | 0,00 | 0,39 | 1 1/4" | 0,38 | FE | 2,8  | 0,024 | 7  | 0,498 |
| OftalmP00_FC+M1FC_OFT 8               |  |  |  | 22,960 | 15 | 1,00 | 0,00 | 0,37 | 1 1/4" | 0,36 | FE | 6,3  | 0,043 | 6  | 0,540 |
| OftalmP00_FC+M1FC_OFT 9               |  |  |  | 16,960 | 15 | 1,00 | 0,00 | 0,27 | 1"     | 0,46 | FE | 0,8  | 0,018 | 13 | 0,558 |
| OftalmP00_FC+M1FC_OFT 10              |  |  |  | 13,960 | 15 | 1,00 | 0,00 | 0,22 | 1"     | 0,38 | FE | 10,8 | 0,117 | 9  | 0,676 |
| OftalmP00_FC+M1FC_OFT 11              |  |  |  | 12,390 | 15 | 1,00 | 0,00 | 0,20 | 1"     | 0,34 | FE | 0,9  | 0,011 | 7  | 0,686 |
| OftalmP00_FC+M1FC_OFT 12              |  |  |  | 10,890 | 15 | 1,00 | 0,00 | 0,17 | 1"     | 0,30 | FE | 3,4  | 0,023 | 6  | 0,709 |
| OftalmP00_FC+M1FC_OFT 13              |  |  |  | 9,390  | 15 | 1,00 | 0,00 | 0,15 | 3/4"   | 0,41 | FE | 3,0  | 0,047 | 14 | 0,756 |
| OftalmP00_FC+M1FC_OFT 14              |  |  |  | 7,890  | 15 | 1,00 | 0,00 | 0,13 | 3/4"   | 0,34 | FE | 2,5  | 0,029 | 10 | 0,786 |
| OftalmP00_FC+M1FC_OFT 15              |  |  |  | 3,156  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,25 | FE | 11,5 | 0,110 | 8  | 0,896 |
| OftalmP00_FC+M1FC_OFT FC0101 24 16    |  |  |  | 1,578  | 15 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,12 | FE | 3,0  | 0,008 | 2  | 0,904 |
| OftalmP00_FC+M1FC_OFT FC0101 24 17    |  |  |  | 1,578  | 15 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,12 | FE | 2,8  | 0,008 | 2  | 0,903 |
| OftalmP00_FC+M1FC_OFT 18              |  |  |  | 4,734  | 15 | 1,00 | 0,00 | 0,08 | 3/4"   | 0,21 | FE | 10,0 | 0,040 | 4  | 0,826 |
| OftalmP00_FC+M1FC_OFT 19              |  |  |  | 3,156  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,25 | FE | 11,2 | 0,102 | 8  | 0,928 |
| OftalmP00_FC+M1FC_OFT FC0101 24 20    |  |  |  | 1,578  | 15 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,12 | FE | 3,7  | 0,010 | 2  | 0,938 |
| OftalmP00_FC+M1FC_OFT FC0101 24 21    |  |  |  | 1,578  | 15 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,12 | FE | 3,5  | 0,009 | 2  | 0,937 |
| OftalmP00_FC+M1FC_OFT FC0101 24 22    |  |  |  | 1,578  | 15 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,12 | FE | 1,1  | 0,004 | 2  | 0,830 |
| OftalmP00_FC+M1FC_OFT FC0101 21 23    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,5  | 0,006 | 2  | 0,763 |
| OftalmP00_FC+M1FC_OFT FC0101 03 24    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,1  | 0,006 | 2  | 0,715 |
| OftalmP00_FC+M1FC_OFT FC0101 04 25    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,1  | 0,006 | 2  | 0,692 |
| OftalmP00_FC+M1FC_OFT FC0101 19 26    |  |  |  | 1,570  | 15 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,12 | FE | 14,6 | 0,035 | 2  | 0,710 |
| OftalmP00_FC+M1FC_OFT 27              |  |  |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 1,9  | 0,021 | 7  | 0,579 |
| OftalmP00_FC+M1FC_OFT FC0101 28 28    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,2  | 0,006 | 2  | 0,585 |
| OftalmP00_FC+M1FC_OFT FC0101 29 29    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,6  | 0,005 | 2  | 0,584 |
| OftalmP00_FC+M1FC_OFT 30              |  |  |  | 6,000  | 15 | 1,00 | 0,00 | 0,10 | 3/4"   | 0,26 | FE | 3,1  | 0,022 | 6  | 0,562 |
| OftalmP00_FC+M1FC_OFT 31              |  |  |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 2,7  | 0,032 | 7  | 0,594 |
| OftalmP00_FC+M1FC_OFT FC0101 06 32    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,8  | 0,005 | 2  | 0,599 |
| OftalmP00_FC+M1FC_OFT FC0101 07 33    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,2  | 0,004 | 2  | 0,598 |
| OftalmP00_FC+M1FC_OFT 34              |  |  |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 1,2  | 0,016 | 7  | 0,578 |
| OftalmP00_FC+M1FC_OFT FC0101 09 35    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,7  | 0,005 | 2  | 0,583 |
| OftalmP00_FC+M1FC_OFT FC0101 08 36    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,7  | 0,005 | 2  | 0,583 |
| OftalmP00_FC+M1FC_OFT FC0101 27 37    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,5  | 0,006 | 2  | 0,504 |
| OftalmP00_FC+M1FC_OFT FC0101 16 38    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,3  | 0,006 | 2  | 0,472 |
| OftalmP00_FC+M1FC_OFT 39              |  |  |  | 7,500  | 15 | 1,00 | 0,00 | 0,12 | 3/4"   | 0,33 | FE | 1,1  | 0,014 | 9  | 0,454 |
| OftalmP00_FC+M1FC_OFT 40              |  |  |  | 6,000  | 15 | 1,00 | 0,00 | 0,10 | 3/4"   | 0,26 | FE | 1,4  | 0,011 | 6  | 0,465 |
| OftalmP00_FC+M1FC_OFT 41              |  |  |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 5,1  | 0,049 | 7  | 0,514 |
| OftalmP00_FC+M1FC_OFT FC0101 13 42    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,1  | 0,004 | 2  | 0,518 |
| OftalmP00_FC+M1FC_OFT FC0101 14 43    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,5  | 0,005 | 2  | 0,518 |
| OftalmP00_FC+M1FC_OFT 44              |  |  |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 4,0  | 0,036 | 7  | 0,501 |
| OftalmP00_FC+M1FC_OFT FC0101 10 45    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,8  | 0,005 | 2  | 0,506 |
| OftalmP00_FC+M1FC_OFT FC0101 11 46    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,2  | 0,004 | 2  | 0,505 |
| OftalmP00_FC+M1FC_OFT FC0101 15 47    |  |  |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,3  | 0,006 | 2  | 0,460 |

|                            |      |        |                                  |
|----------------------------|------|--------|----------------------------------|
| Potencia instalada         | 36   | 40     | Kw, incluyendo pérdidas de calor |
| Coefficiente simultaneidad | 1,00 | 8,824% |                                  |

| CALCULO DE LA BOMBA            |      |
|--------------------------------|------|
| PERDIDA DE CARGA MAXIMA (mdca) | 0,94 |
| PÉRDIDA TOTAL TUBERIAS (mdca)  | 1,9  |
| VALVULA DE CONTROL (mdca)      | 5,3  |
| BATERIA (mdca)                 | 0,9  |
| VALVULA DE EQUILIBRADO (mdca)  | 2,6  |
| FILTRO (mdca)                  | 0,4  |
| VALVULAS (mdca)                | 0,1  |
| TOTAL (mdca)                   | 11,2 |
| SEGURIDAD (mdca)               | 12,3 |
| CAUDAL (m3/h)                  | 2,27 |



# Proyecto BASICO Y DE EJECUCION FASE III HOSPITAL UNIVERSITARIO CLÍNICO SAN CARLOS

| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |                 |          |    |     |                |      |    |     |     |      |     |        |     |
|--|----------|--------------|-----------------|----------|----|-----|----------------|------|----|-----|-----|------|-----|--------|-----|
| Planta   | Montante | Equipo/Local | Tramo           | Potencia | dT | C.S | Porc<br>glicol | Qins | DN | V   | Mat | Long | Pc  | Pc/m   | SPc |
|  |          |              |                 | Kw       | °C |     | %              | l/s  | mm | m/s |     | m    | mcd | mmcd/m | mcd |
| Método de Cálculo pdc                              |          |              | Darcy-Weissbach |          |    |     |                |      |    |     |     |      |     |        |     |

## PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS

### CIRCUITO: Calor Fancoils Subcentral 01

|                  |           |       |  |        |    |      |      |      |        |      |    |      |       |    |       |
|------------------|-----------|-------|--|--------|----|------|------|------|--------|------|----|------|-------|----|-------|
| Pab_C_FC_Ps-MFC1 | -MFC1     | -MFC1 |  | 28,500 | 15 | 1,00 | 0,00 | 0,45 | 1 1/4" | 0,45 | FE | 4,0  | 0,036 | 9  | 0,193 |
| Pab_C_FC_Ps-MFC1 |           | 1     |  | 28,500 | 15 | 1,00 | 0,00 | 0,45 | 1 1/4" | 0,45 | FE | 2,1  | 0,044 | 9  | 0,237 |
| Pab_C_FC_Ps-MFC1 |           | 2     |  | 4,500  | 15 | 1,00 | 0,00 | 0,07 | 3/4"   | 0,20 | FE | 0,9  | 0,005 | 4  | 0,241 |
| Pab_C_FC_Ps-MFC1 |           | 3     |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 14,0 | 0,108 | 7  | 0,349 |
| Pab_C_FC_Ps-MFC1 | FC0205 02 | 4     |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 8,2  | 0,019 | 2  | 0,369 |
| Pab_C_FC_Ps-MFC1 | FC0205 03 | 5     |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,9  | 0,007 | 2  | 0,357 |
| Pab_C_FC_Ps-MFC1 | FC0203 17 | 6     |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,0  | 0,006 | 2  | 0,247 |
| Pab_C_FC_Ps-MFC1 |           | 7     |  | 24,000 | 15 | 1,00 | 0,00 | 0,38 | 1 1/4" | 0,38 | FE | 3,5  | 0,028 | 7  | 0,265 |
| Pab_C_FC_Ps-MFC1 |           | 8     |  | 21,000 | 15 | 1,00 | 0,00 | 0,33 | 1 1/4" | 0,33 | FE | 0,7  | 0,007 | 5  | 0,272 |
| Pab_C_FC_Ps-MFC1 |           | 9     |  | 7,500  | 15 | 1,00 | 0,00 | 0,12 | 3/4"   | 0,33 | FE | 9,5  | 0,090 | 9  | 0,362 |
| Pab_C_FC_Ps-MFC1 |           | 10    |  | 6,000  | 15 | 1,00 | 0,00 | 0,10 | 3/4"   | 0,26 | FE | 6,5  | 0,042 | 6  | 0,404 |
| Pab_C_FC_Ps-MFC1 |           | 11    |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 3,6  | 0,028 | 7  | 0,432 |
| Pab_C_FC_Ps-MFC1 | FC0203 26 | 12    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 7,6  | 0,019 | 2  | 0,452 |
| Pab_C_FC_Ps-MFC1 | FC0203 27 | 13    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 3,0  | 0,009 | 2  | 0,441 |
| Pab_C_FC_Ps-MFC1 |           | 14    |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 3,0  | 0,024 | 7  | 0,428 |
| Pab_C_FC_Ps-MFC1 | FC0203 13 | 15    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 5,2  | 0,013 | 2  | 0,441 |
| Pab_C_FC_Ps-MFC1 | FC0203 12 | 16    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,3  | 0,004 | 2  | 0,432 |
| Pab_C_FC_Ps-MFC1 | FC0203 25 | 17    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,3  | 0,006 | 2  | 0,368 |
| Pab_C_FC_Ps-MFC1 |           | 18    |  | 13,500 | 15 | 1,00 | 0,00 | 0,22 | 1"     | 0,37 | FE | 9,7  | 0,101 | 9  | 0,373 |
| Pab_C_FC_Ps-MFC1 |           | 19    |  | 12,000 | 15 | 1,00 | 0,00 | 0,19 | 1"     | 0,33 | FE | 2,4  | 0,021 | 7  | 0,393 |
| Pab_C_FC_Ps-MFC1 |           | 20    |  | 10,500 | 15 | 1,00 | 0,00 | 0,17 | 1"     | 0,29 | FE | 7,6  | 0,045 | 6  | 0,438 |
| Pab_C_FC_Ps-MFC1 |           | 21    |  | 9,000  | 15 | 1,00 | 0,00 | 0,14 | 3/4"   | 0,39 | FE | 6,7  | 0,091 | 13 | 0,529 |
| Pab_C_FC_Ps-MFC1 |           | 22    |  | 7,500  | 15 | 1,00 | 0,00 | 0,12 | 3/4"   | 0,33 | FE | 3,7  | 0,038 | 9  | 0,567 |
| Pab_C_FC_Ps-MFC1 |           | 23    |  | 6,000  | 15 | 1,00 | 0,00 | 0,10 | 3/4"   | 0,26 | FE | 7,9  | 0,056 | 6  | 0,623 |
| Pab_C_FC_Ps-MFC1 |           | 24    |  | 4,500  | 15 | 1,00 | 0,00 | 0,07 | 3/4"   | 0,20 | FE | 4,4  | 0,017 | 4  | 0,640 |
| Pab_C_FC_Ps-MFC1 |           | 25    |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 3,0  | 0,023 | 7  | 0,664 |
| Pab_C_FC_Ps-MFC1 | FC0205 07 | 26    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 5,9  | 0,015 | 2  | 0,678 |
| Pab_C_FC_Ps-MFC1 | FC0205 07 | 27    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,4  | 0,004 | 2  | 0,668 |
| Pab_C_FC_Ps-MFC1 | FC0205 07 | 28    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,4  | 0,004 | 2  | 0,644 |
| Pab_C_FC_Ps-MFC1 | FC0205 07 | 29    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,4  | 0,004 | 2  | 0,627 |
| Pab_C_FC_Ps-MFC1 | FC0203 02 | 30    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 9,0  | 0,019 | 2  | 0,587 |
| Pab_C_FC_Ps-MFC1 | FC0203 40 | 31    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 3,8  | 0,009 | 2  | 0,538 |
| Pab_C_FC_Ps-MFC1 | FC0203 41 | 32    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 3,8  | 0,009 | 2  | 0,447 |
| Pab_C_FC_Ps-MFC1 | FC0203 42 | 33    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 6,3  | 0,014 | 2  | 0,407 |
| Pab_C_FC_Ps-MFC1 | FC0203 43 | 34    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 3,3  | 0,008 | 2  | 0,381 |
| Pab_C_FC_Ps-MFC1 |           | 35    |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 1,6  | 0,019 | 7  | 0,284 |
| Pab_C_FC_Ps-MFC1 | FC0203 16 | 36    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,2  | 0,004 | 2  | 0,288 |
| Pab_C_FC_Ps-MFC1 | FC0203 15 | 37    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 3,1  | 0,008 | 2  | 0,292 |
|                  |           |       |  |        |    |      |      |      |        |      |    |      |       |    |       |
| Pab_C_FC_PC-MFC1 | -MFC1     | -MFC1 |  | 49,500 | 15 | 1,00 | 0,00 | 0,79 | 1 1/2" | 0,57 | FE | 4,0  | 0,058 | 12 | 0,156 |
| Pab_C_FC_PC-MFC1 |           | 1     |  | 21,000 | 15 | 1,00 | 0,00 | 0,33 | 1 1/4" | 0,33 | FE | 1,6  | 0,020 | 5  | 0,177 |
| Pab_C_FC_PC-MFC1 | FC0209 02 | 2     |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 3,6  | 0,010 | 2  | 0,187 |
| Pab_C_FC_PC-MFC1 |           | 3     |  | 19,500 | 15 | 1,00 | 0,00 | 0,31 | 1 1/4" | 0,31 | FE | 4,3  | 0,023 | 4  | 0,199 |
| Pab_C_FC_PC-MFC1 |           | 4     |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 3,6  | 0,028 | 7  | 0,228 |
| Pab_C_FC_PC-MFC1 | FC0209 05 | 5     |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 9,7  | 0,022 | 2  | 0,250 |
| Pab_C_FC_PC-MFC1 | FC0209 01 | 6     |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,4  | 0,006 | 2  | 0,234 |
| Pab_C_FC_PC-MFC1 |           | 7     |  | 16,500 | 15 | 1,00 | 0,00 | 0,26 | 1"     | 0,45 | FE | 4,9  | 0,070 | 13 | 0,269 |
| Pab_C_FC_PC-MFC1 |           | 8     |  | 15,000 | 15 | 1,00 | 0,00 | 0,24 | 1"     | 0,41 | FE | 4,2  | 0,050 | 11 | 0,319 |
| Pab_C_FC_PC-MFC1 |           | 9     |  | 13,500 | 15 | 1,00 | 0,00 | 0,22 | 1"     | 0,37 | FE | 3,6  | 0,036 | 9  | 0,356 |
| Pab_C_FC_PC-MFC1 |           | 10    |  | 12,000 | 15 | 1,00 | 0,00 | 0,19 | 1"     | 0,33 | FE | 4,6  | 0,037 | 7  | 0,392 |
| Pab_C_FC_PC-MFC1 |           | 11    |  | 10,500 | 15 | 1,00 | 0,00 | 0,17 | 1"     | 0,29 | FE | 0,4  | 0,005 | 6  | 0,397 |
| Pab_C_FC_PC-MFC1 |           | 12    |  | 9,000  | 15 | 1,00 | 0,00 | 0,14 | 3/4"   | 0,39 | FE | 2,6  | 0,039 | 13 | 0,436 |
| Pab_C_FC_PC-MFC1 |           | 13    |  | 7,500  | 15 | 1,00 | 0,00 | 0,12 | 3/4"   | 0,33 | FE | 2,4  | 0,026 | 9  | 0,462 |
| Pab_C_FC_PC-MFC1 |           | 14    |  | 6,000  | 15 | 1,00 | 0,00 | 0,10 | 3/4"   | 0,26 | FE | 21,2 | 0,148 | 6  | 0,610 |
| Pab_C_FC_PC-MFC1 |           | 15    |  | 4,500  | 15 | 1,00 | 0,00 | 0,07 | 3/4"   | 0,20 | FE | 0,8  | 0,004 | 4  | 0,614 |
| Pab_C_FC_PC-MFC1 |           | 16    |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 4,1  | 0,032 | 7  | 0,646 |
| Pab_C_FC_PC-MFC1 | FC0209 10 | 17    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 5,7  | 0,014 | 2  | 0,660 |
| Pab_C_FC_PC-MFC1 | FC0209 08 | 18    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,6  | 0,005 | 2  | 0,651 |
| Pab_C_FC_PC-MFC1 | FC0209 19 | 19    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,6  | 0,005 | 2  | 0,619 |
| Pab_C_FC_PC-MFC1 | FC0209 09 | 20    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,0  | 0,003 | 2  | 0,613 |
| Pab_C_FC_PC-MFC1 | FC0209 12 | 21    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 5,8  | 0,013 | 2  | 0,475 |
| Pab_C_FC_PC-MFC1 | FC0209 16 | 22    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,9  | 0,005 | 2  | 0,441 |
| Pab_C_FC_PC-MFC1 | FC0209 13 | 23    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,9  | 0,005 | 2  | 0,402 |
| Pab_C_FC_PC-MFC1 | FC0209 15 | 24    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 7,8  | 0,017 | 2  | 0,409 |
| Pab_C_FC_PC-MFC1 | FC0209 13 | 25    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,9  | 0,005 | 2  | 0,361 |
| Pab_C_FC_PC-MFC1 | FC0209 13 | 26    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,9  | 0,005 | 2  | 0,325 |
| Pab_C_FC_PC-MFC1 | FC0209 06 | 27    |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,9  | 0,007 | 2  | 0,276 |
|                  |           |       |  |        |    |      |      |      |        |      |    |      |       |    |       |
| Pab_C_FC_PC-MFC1 | -MFC1     | -MFC1 |  | 58,500 | 15 | 1,00 | 0,00 | 0,93 | 2"     | 0,42 | FE | 4,0  | 0,026 | 5  | 0,098 |
| Pab_C_FC_PC-MFC1 |           | 1     |  | 9,000  | 15 | 1,00 | 0,00 | 0,14 | 3/4"   | 0,39 | FE | 3,0  | 0,059 | 13 | 0,158 |
| Pab_C_FC_PC-MFC1 |           | 2     |  | 6,000  | 15 | 1,00 | 0,00 | 0,10 | 3/4"   | 0,26 | FE | 6,4  | 0,047 | 6  | 0,204 |
| Pab_C_FC_PC-MFC1 |           | 3     |  | 4,500  | 15 | 1,00 | 0,00 | 0,07 | 3/4"   | 0,20 | FE | 6,7  | 0,025 | 4  | 0,230 |
| Pab_C_FC_PC-MFC1 | FC0209 31 | 4     |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 16,0 | 0,036 | 2  | 0,266 |
| Pab_C_FC_PC-MFC1 |           | 5     |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 3,2  | 0,025 | 7  | 0,255 |
| Pab_C_FC_PC-MFC1 | FC0209 36 | 6     |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 2,1  | 0,007 | 2  | 0,262 |
| Pab_C_FC_PC-MFC1 | FC0209 37 | 7     |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 1,1  | 0,004 | 2  | 0,258 |
| Pab_C_FC_PC-MFC1 | FC0209 35 | 8     |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2"   | 0,12 | FE | 3,4  | 0,010 | 2  | 0,214 |
| Pab_C_FC_PC-MFC1 |           | 9     |  | 3,000  | 15 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 3,1  | 0,030 | 7  | 0,187 |



| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |                 |          |    |     |                |      |    |     |     |      |      |         |      |
|--|----------|--------------|-----------------|----------|----|-----|----------------|------|----|-----|-----|------|------|---------|------|
| Planta   | Montante | Equipo/Local | Tramo           | Potencia | dT | C.S | Porc<br>glicol | Qins | DN | V   | Mat | Long | Pc   | Pc/m    | SPc  |
|  |          |              |                 | Kw       | °C |     | %              | l/s  | mm | m/s |     | m    | mdca | mmdca/m | mdca |
| Método de Cálculo pdc                              |          |              | Darcy-Weissbach |          |    |     |                |      |    |     |     |      |      |         |      |

## PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS

## CIRCUITO: Calor Fancoils Subcentral 01

|                  |           |      |  |        |    |      |      |      |      |      |    |     |       |   |       |
|------------------|-----------|------|--|--------|----|------|------|------|------|------|----|-----|-------|---|-------|
| Pab_C_FC_PC-MFC1 | FC0209 41 | 10   |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2" | 0,12 | FE | 2,2 | 0,007 | 2 | 0,195 |
| Pab_C_FC_PC-MFC1 | FC0209 42 | 11   |  | 1,500  | 15 | 1,00 | 0,00 | 0,02 | 1/2" | 0,12 | FE | 2,2 | 0,007 | 2 | 0,195 |
| Pab_C_FC_PC+MFC  | +MFC      | +MFC |  | 58,500 | 15 | 1,00 | 0,00 | 0,93 | 2"   | 0,42 | FE | 4,0 | 0,021 | 5 | 0,021 |
| Pab_C_FC_PC+MFC  | MFC1      | 1    |  | 58,500 | 15 | 1,00 | 0,00 | 0,93 | 2"   | 0,42 | FE | 6,0 | 0,052 | 5 | 0,072 |

|                            |      |         |                                  |
|----------------------------|------|---------|----------------------------------|
| Potencia instalada         | 59   | 65      | Kw, incluyendo pérdidas de calor |
| Coefficiente simultaneidad | 1,00 | 10,793% |                                  |

## CALCULO DE LA BOMBA

|                                |      |
|--------------------------------|------|
| PERDIDA DE CARGA MAXIMA (mdca) | 0,68 |
| PERDIDA TOTAL TUBERIAS (mdca)  | 1,4  |
| VALVULA DE CONTROL (mdca)      | 5,3  |
| BATERIA (mdca)                 | 0,9  |
| VALVULA DE EQUILIBRADO (mdca)  | 2,6  |
| FILTRO (mdca)                  | 0,4  |
| VALVULAS (mdca)                | 0,1  |
| TOTAL (mdca)                   | 10,7 |
| SEGURIDAD (mdca)               | 11,7 |
| CAUDAL (m3/h)                  | 3,72 |



# Proyecto BASICO Y DE EJECUCION FASE III HOSPITAL UNIVERSITARIO CLÍNICO SAN CARLOS

| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |       |                 |    |     |                |      |    |     |     |      |     |        |     |
|--|----------|--------------|-------|-----------------|----|-----|----------------|------|----|-----|-----|------|-----|--------|-----|
| Planta   | Montante | Equipo/Local | Tramo | Potencia        | dT | C.S | Porc<br>glicol | Qins | DN | V   | Mat | Long | Pc  | Pc/m   | SPc |
|  |          |              |       | Kw              | °C |     | %              | l/s  | mm | m/s |     | m    | mcd | mmcd/m | mcd |
| Método de Cálculo pdc                              |          |              |       | Darcy-Weissbach |    |     |                |      |    |     |     |      |     |        |     |

## PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS

### CIRCUITO: Frio Fancoils Subcentral 01

|                  |           |       |  |        |   |      |      |      |        |      |    |      |       |    |       |
|------------------|-----------|-------|--|--------|---|------|------|------|--------|------|----|------|-------|----|-------|
| Pab_C_FC_Ps-MFC1 | -MFC1     | -MFC1 |  | 45,936 | 5 | 1,00 | 0,00 | 2,19 | 2 1/2" | 0,59 | FE | 4,0  | 0,033 | 8  | 0,353 |
| Pab_C_FC_Ps-MFC1 |           | 1     |  | 45,936 | 5 | 1,00 | 0,00 | 2,19 | 2 1/2" | 0,59 | FE | 2,1  | 0,060 | 8  | 0,413 |
| Pab_C_FC_Ps-MFC1 |           | 2     |  | 2,917  | 5 | 1,00 | 0,00 | 0,14 | 3/4"   | 0,38 | FE | 0,9  | 0,018 | 14 | 0,432 |
| Pab_C_FC_Ps-MFC1 |           | 3     |  | 2,181  | 5 | 1,00 | 0,00 | 0,10 | 3/4"   | 0,28 | FE | 14,0 | 0,127 | 8  | 0,559 |
| Pab_C_FC_Ps-MFC1 | FC0205 02 | 4     |  | 1,323  | 5 | 1,00 | 0,00 | 0,06 | 1/2"   | 0,31 | FE | 8,2  | 0,136 | 14 | 0,695 |
| Pab_C_FC_Ps-MFC1 | FC0205 03 | 5     |  | 0,858  | 5 | 1,00 | 0,00 | 0,04 | 1/2"   | 0,20 | FE | 2,9  | 0,023 | 6  | 0,582 |
| Pab_C_FC_Ps-MFC1 | FC0203 17 | 6     |  | 0,736  | 5 | 1,00 | 0,00 | 0,04 | 1/2"   | 0,17 | FE | 2,0  | 0,013 | 5  | 0,445 |
| Pab_C_FC_Ps-MFC1 |           | 7     |  | 43,019 | 5 | 1,00 | 0,00 | 2,06 | 2 1/2" | 0,55 | FE | 3,5  | 0,036 | 7  | 0,449 |
| Pab_C_FC_Ps-MFC1 |           | 8     |  | 39,871 | 5 | 1,00 | 0,00 | 1,90 | 2 1/2" | 0,51 | FE | 0,7  | 0,013 | 6  | 0,462 |
| Pab_C_FC_Ps-MFC1 |           | 9     |  | 8,028  | 5 | 1,00 | 0,00 | 0,38 | 1 1/4" | 0,38 | FE | 9,5  | 0,079 | 8  | 0,542 |
| Pab_C_FC_Ps-MFC1 |           | 10    |  | 7,137  | 5 | 1,00 | 0,00 | 0,34 | 1 1/4" | 0,34 | FE | 6,5  | 0,045 | 6  | 0,587 |
| Pab_C_FC_Ps-MFC1 |           | 11    |  | 6,167  | 5 | 1,00 | 0,00 | 0,29 | 1"     | 0,51 | FE | 3,6  | 0,076 | 18 | 0,663 |
| Pab_C_FC_Ps-MFC1 | FC0203 26 | 12    |  | 1,436  | 5 | 1,00 | 0,00 | 0,07 | 1/2"   | 0,34 | FE | 7,6  | 0,160 | 16 | 0,824 |
| Pab_C_FC_Ps-MFC1 | FC0203 27 | 13    |  | 4,731  | 5 | 1,00 | 0,00 | 0,23 | 1"     | 0,39 | FE | 3,0  | 0,062 | 11 | 0,725 |
| Pab_C_FC_Ps-MFC1 |           | 14    |  | 0,970  | 5 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,23 | FE | 3,0  | 0,027 | 8  | 0,614 |
| Pab_C_FC_Ps-MFC1 | FC0203 13 | 15    |  | 0,697  | 5 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,17 | FE | 5,2  | 0,029 | 4  | 0,642 |
| Pab_C_FC_Ps-MFC1 | FC0203 12 | 16    |  | 0,273  | 5 | 1,00 | 0,00 | 0,01 | 1/2"   | 0,06 | FE | 1,3  | 0,002 | 1  | 0,615 |
| Pab_C_FC_Ps-MFC1 | FC0203 25 | 17    |  | 0,892  | 5 | 1,00 | 0,00 | 0,04 | 1/2"   | 0,21 | FE | 2,3  | 0,021 | 7  | 0,562 |
| Pab_C_FC_Ps-MFC1 |           | 18    |  | 31,843 | 5 | 1,00 | 0,00 | 1,52 | 2"     | 0,69 | FE | 9,7  | 0,196 | 15 | 0,659 |
| Pab_C_FC_Ps-MFC1 |           | 19    |  | 29,929 | 5 | 1,00 | 0,00 | 1,43 | 2"     | 0,65 | FE | 2,4  | 0,046 | 13 | 0,705 |
| Pab_C_FC_Ps-MFC1 |           | 20    |  | 26,266 | 5 | 1,00 | 0,00 | 1,25 | 2"     | 0,57 | FE | 7,6  | 0,090 | 10 | 0,795 |
| Pab_C_FC_Ps-MFC1 |           | 21    |  | 21,960 | 5 | 1,00 | 0,00 | 1,05 | 2"     | 0,48 | FE | 6,7  | 0,058 | 7  | 0,853 |
| Pab_C_FC_Ps-MFC1 |           | 22    |  | 17,810 | 5 | 1,00 | 0,00 | 0,85 | 1 1/2" | 0,62 | FE | 3,7  | 0,074 | 16 | 0,927 |
| Pab_C_FC_Ps-MFC1 |           | 23    |  | 16,450 | 5 | 1,00 | 0,00 | 0,79 | 1 1/2" | 0,57 | FE | 7,9  | 0,148 | 14 | 1,075 |
| Pab_C_FC_Ps-MFC1 |           | 24    |  | 12,338 | 5 | 1,00 | 0,00 | 0,59 | 1 1/4" | 0,58 | FE | 4,4  | 0,089 | 17 | 1,163 |
| Pab_C_FC_Ps-MFC1 |           | 25    |  | 8,225  | 5 | 1,00 | 0,00 | 0,39 | 1 1/4" | 0,39 | FE | 3,0  | 0,030 | 8  | 1,193 |
| Pab_C_FC_Ps-MFC1 | FC0205 07 | 26    |  | 4,113  | 5 | 1,00 | 0,00 | 0,20 | 1"     | 0,34 | FE | 5,9  | 0,072 | 9  | 1,265 |
| Pab_C_FC_Ps-MFC1 | FC0205 07 | 27    |  | 4,113  | 5 | 1,00 | 0,00 | 0,20 | 1"     | 0,34 | FE | 1,4  | 0,023 | 9  | 1,216 |
| Pab_C_FC_Ps-MFC1 | FC0205 07 | 28    |  | 4,113  | 5 | 1,00 | 0,00 | 0,20 | 1"     | 0,34 | FE | 1,4  | 0,023 | 9  | 1,186 |
| Pab_C_FC_Ps-MFC1 | FC0205 07 | 29    |  | 4,113  | 5 | 1,00 | 0,00 | 0,20 | 1"     | 0,34 | FE | 1,4  | 0,023 | 9  | 1,098 |
| Pab_C_FC_Ps-MFC1 | FC0203 02 | 30    |  | 1,359  | 5 | 1,00 | 0,00 | 0,06 | 1/2"   | 0,32 | FE | 9,0  | 0,144 | 15 | 1,071 |
| Pab_C_FC_Ps-MFC1 | FC0203 40 | 31    |  | 4,151  | 5 | 1,00 | 0,00 | 0,20 | 1"     | 0,34 | FE | 3,8  | 0,045 | 9  | 0,898 |
| Pab_C_FC_Ps-MFC1 | FC0203 41 | 32    |  | 4,305  | 5 | 1,00 | 0,00 | 0,21 | 1"     | 0,35 | FE | 3,8  | 0,048 | 9  | 0,842 |
| Pab_C_FC_Ps-MFC1 | FC0203 42 | 33    |  | 3,663  | 5 | 1,00 | 0,00 | 0,18 | 1"     | 0,30 | FE | 6,3  | 0,052 | 7  | 0,757 |
| Pab_C_FC_Ps-MFC1 | FC0203 43 | 34    |  | 1,914  | 5 | 1,00 | 0,00 | 0,09 | 3/4"   | 0,25 | FE | 3,3  | 0,027 | 6  | 0,686 |
| Pab_C_FC_Ps-MFC1 |           | 35    |  | 3,148  | 5 | 1,00 | 0,00 | 0,15 | 3/4"   | 0,41 | FE | 1,6  | 0,049 | 16 | 0,499 |
| Pab_C_FC_Ps-MFC1 | FC0203 16 | 36    |  | 0,669  | 5 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,16 | FE | 1,2  | 0,008 | 4  | 0,507 |
| Pab_C_FC_Ps-MFC1 | FC0203 15 | 37    |  | 2,479  | 5 | 1,00 | 0,00 | 0,12 | 3/4"   | 0,32 | FE | 3,1  | 0,043 | 10 | 0,542 |
|                  |           |       |  |        |   |      |      |      |        |      |    |      |       |    |       |
| Pab_C_FC_PC-MFC1 | -MFC1     | -MFC1 |  | 63,522 | 5 | 1,00 | 0,00 | 3,03 | 2 1/2" | 0,82 | FE | 4,0  | 0,081 | 15 | 0,320 |
| Pab_C_FC_PC-MFC1 |           | 1     |  | 17,586 | 5 | 1,00 | 0,00 | 0,84 | 1 1/2" | 0,61 | FE | 1,6  | 0,069 | 16 | 0,389 |
| Pab_C_FC_PC-MFC1 | FC0209 02 | 2     |  | 0,312  | 5 | 1,00 | 0,00 | 0,01 | 1/2"   | 0,07 | FE | 3,6  | 0,005 | 1  | 0,394 |
| Pab_C_FC_PC-MFC1 |           | 3     |  | 17,274 | 5 | 1,00 | 0,00 | 0,83 | 1 1/2" | 0,60 | FE | 4,3  | 0,079 | 15 | 0,468 |
| Pab_C_FC_PC-MFC1 |           | 4     |  | 0,998  | 5 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,24 | FE | 3,6  | 0,033 | 8  | 0,501 |
| Pab_C_FC_PC-MFC1 | FC0209 05 | 5     |  | 0,687  | 5 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,16 | FE | 9,7  | 0,047 | 4  | 0,547 |
| Pab_C_FC_PC-MFC1 | FC0209 01 | 6     |  | 0,312  | 5 | 1,00 | 0,00 | 0,01 | 1/2"   | 0,07 | FE | 2,4  | 0,003 | 1  | 0,504 |
| Pab_C_FC_PC-MFC1 |           | 7     |  | 16,276 | 5 | 1,00 | 0,00 | 0,78 | 1 1/2" | 0,57 | FE | 4,9  | 0,079 | 14 | 0,546 |
| Pab_C_FC_PC-MFC1 |           | 8     |  | 15,642 | 5 | 1,00 | 0,00 | 0,75 | 1 1/2" | 0,54 | FE | 4,2  | 0,064 | 13 | 0,610 |
| Pab_C_FC_PC-MFC1 |           | 9     |  | 13,922 | 5 | 1,00 | 0,00 | 0,67 | 1 1/2" | 0,48 | FE | 3,6  | 0,045 | 10 | 0,655 |
| Pab_C_FC_PC-MFC1 |           | 10    |  | 12,203 | 5 | 1,00 | 0,00 | 0,58 | 1 1/4" | 0,58 | FE | 4,6  | 0,090 | 17 | 0,745 |
| Pab_C_FC_PC-MFC1 |           | 11    |  | 8,287  | 5 | 1,00 | 0,00 | 0,40 | 1 1/4" | 0,39 | FE | 0,4  | 0,009 | 8  | 0,754 |
| Pab_C_FC_PC-MFC1 |           | 12    |  | 6,567  | 5 | 1,00 | 0,00 | 0,31 | 1 1/4" | 0,31 | FE | 2,6  | 0,018 | 5  | 0,772 |
| Pab_C_FC_PC-MFC1 |           | 13    |  | 5,415  | 5 | 1,00 | 0,00 | 0,26 | 1"     | 0,45 | FE | 2,4  | 0,043 | 14 | 0,815 |
| Pab_C_FC_PC-MFC1 |           | 14    |  | 4,568  | 5 | 1,00 | 0,00 | 0,22 | 1"     | 0,38 | FE | 21,2 | 0,268 | 11 | 1,084 |
| Pab_C_FC_PC-MFC1 |           | 15    |  | 3,500  | 5 | 1,00 | 0,00 | 0,17 | 3/4"   | 0,46 | FE | 0,8  | 0,025 | 20 | 1,109 |
| Pab_C_FC_PC-MFC1 |           | 16    |  | 2,333  | 5 | 1,00 | 0,00 | 0,11 | 3/4"   | 0,30 | FE | 4,1  | 0,042 | 9  | 1,151 |
| Pab_C_FC_PC-MFC1 | FC0209 10 | 17    |  | 1,167  | 5 | 1,00 | 0,00 | 0,06 | 1/2"   | 0,28 | FE | 5,7  | 0,080 | 11 | 1,231 |
| Pab_C_FC_PC-MFC1 | FC0209 08 | 18    |  | 1,167  | 5 | 1,00 | 0,00 | 0,06 | 1/2"   | 0,28 | FE | 1,6  | 0,026 | 11 | 1,177 |
| Pab_C_FC_PC-MFC1 | FC0209 19 | 19    |  | 1,167  | 5 | 1,00 | 0,00 | 0,06 | 1/2"   | 0,28 | FE | 1,6  | 0,026 | 11 | 1,134 |
| Pab_C_FC_PC-MFC1 | FC0209 09 | 20    |  | 1,068  | 5 | 1,00 | 0,00 | 0,05 | 1/2"   | 0,25 | FE | 1,0  | 0,016 | 9  | 1,099 |
| Pab_C_FC_PC-MFC1 | FC0209 12 | 21    |  | 0,847  | 5 | 1,00 | 0,00 | 0,04 | 1/2"   | 0,20 | FE | 5,8  | 0,040 | 6  | 0,855 |
| Pab_C_FC_PC-MFC1 | FC0209 16 | 22    |  | 1,153  | 5 | 1,00 | 0,00 | 0,06 | 1/2"   | 0,27 | FE | 1,9  | 0,028 | 11 | 0,800 |
| Pab_C_FC_PC-MFC1 | FC0209 13 | 23    |  | 1,720  | 5 | 1,00 | 0,00 | 0,08 | 3/4"   | 0,22 | FE | 1,9  | 0,015 | 5  | 0,769 |
| Pab_C_FC_PC-MFC1 | FC0209 15 | 24    |  | 3,916  | 5 | 1,00 | 0,00 | 0,19 | 1"     | 0,32 | FE | 7,8  | 0,072 | 8  | 0,817 |
| Pab_C_FC_PC-MFC1 | FC0209 13 | 25    |  | 1,720  | 5 | 1,00 | 0,00 | 0,08 | 3/4"   | 0,22 | FE | 1,9  | 0,015 | 5  | 0,670 |
| Pab_C_FC_PC-MFC1 | FC0209 13 | 26    |  | 1,720  | 5 | 1,00 | 0,00 | 0,08 | 3/4"   | 0,22 | FE | 1,9  | 0,015 | 5  | 0,625 |
| Pab_C_FC_PC-MFC1 | FC0209 06 | 27    |  | 0,634  | 5 | 1,00 | 0,00 | 0,03 | 1/2"   | 0,15 | FE | 2,9  | 0,013 | 4  | 0,559 |
|                  |           |       |  |        |   |      |      |      |        |      |    |      |       |    |       |
| Pab_C_FC_PC-MFC1 | -MFC1     | -MFC1 |  | 76,038 | 5 | 1,00 | 0,00 | 3,63 | 3"     | 0,71 | FE | 4,0  | 0,054 | 10 | 0,239 |
| Pab_C_FC_PC-MFC1 |           | 1     |  | 12,516 | 5 | 1,00 | 0,00 | 0,60 | 1 1/4" | 0,59 | FE | 3,0  | 0,101 | 18 | 0,340 |
| Pab_C_FC_PC-MFC1 |           | 2     |  | 11,255 | 5 | 1,00 | 0,00 | 0,54 | 1 1/4" | 0,53 | FE | 6,4  | 0,127 | 14 | 0,467 |
| Pab_C_FC_PC-MFC1 |           | 3     |  | 8,691  | 5 | 1,00 | 0,00 | 0,42 | 1 1/4" | 0,41 | FE | 6,7  | 0,066 | 9  | 0,533 |
| Pab_C_FC_PC-MFC1 | FC0209 31 | 4     |  | 4,074  | 5 | 1,00 | 0,00 | 0,19 | 1"     | 0,33 | FE | 16,0 | 0,168 | 9  | 0,701 |
| Pab_C_FC_PC-MFC1 |           | 5     |  | 4,618  | 5 | 1,00 | 0,00 | 0,22 | 1"     | 0,38 | FE | 3,2  | 0,040 | 11 | 0,573 |
| Pab_C_FC_PC-MFC1 | FC0209 36 | 6     |  | 3,249  | 5 | 1,00 | 0,00 | 0,16 | 3/4"   | 0,42 | FE | 2,1  | 0,070 | 17 | 0,644 |
| Pab_C_FC_PC-MFC1 | FC0209 37 | 7     |  | 1,369  | 5 | 1,00 | 0,00 | 0,07 | 1/2"   | 0,33 | FE | 1,1  | 0,028 | 15 | 0,601 |
| Pab_C_FC_PC-MFC1 | FC0209 35 | 8     |  | 2,564  | 5 | 1,00 | 0,00 | 0,12 | 3/4"   | 0,33 | FE | 3,4  | 0,059 | 11 | 0,526 |
| Pab_C_FC_PC-MFC1 |           | 9     |  | 1,261  | 5 | 1,00 | 0,00 | 0,06 | 1/2"   | 0,30 | FE | 3,1  | 0,054 | 13 | 0,394 |



| INSTALACIÓN DE CLIMATIZACIÓN. CÁLCULO DE TUBERÍAS. |          |              |       |                 |    |     |                |      |    |     |     |      |      |          |      |
|--|----------|--------------|-------|-----------------|----|-----|----------------|------|----|-----|-----|------|------|----------|------|
| Planta   | Montante | Equipo/Local | Tramo | Potencia        | dT | C.S | Porc<br>glicol | Qins | DN | V   | Mat | Long | Pc   | Pc/m     | SPc  |
|  |          |              |       | Kw              | °C |     | %              | l/s  | mm | m/s |     | m    | meda | mmmeda/m | meda |
| Método de Cálculo pdc                              |          |              |       | Darcy-Weissbach |    |     |                |      |    |     |     |      |      |          |      |

## PROYECTO: FASE III HOSPITAL CLINICO SAN CARLOS

## CIRCUITO: Frio Fancoils Subcentral 01

|                  |           |      |        |   |      |      |      |      |      |    |     |       |    |       |
|------------------|-----------|------|--------|---|------|------|------|------|------|----|-----|-------|----|-------|
| Pab_C_FC_PC-MFC1 | FC0209 41 | 10   | 0,634  | 5 | 1,00 | 0,00 | 0,03 | 1/2" | 0,15 | FE | 2,2 | 0,013 | 4  | 0,407 |
| Pab_C_FC_PC-MFC1 | FC0209 42 | 11   | 0,627  | 5 | 1,00 | 0,00 | 0,03 | 1/2" | 0,15 | FE | 2,2 | 0,013 | 4  | 0,407 |
| Pab_C_FC_PC+MFC  | +MFC      | +MFC | 76,038 | 5 | 1,00 | 0,00 | 3,63 | 3"   | 0,71 | FE | 4,0 | 0,038 | 10 | 0,038 |
| Pab_C_FC_PC+MFC  | MFC1      | 1    | 76,038 | 5 | 1,00 | 0,00 | 3,63 | 3"   | 0,71 | FE | 6,0 | 0,147 | 10 | 0,185 |

|                            |      |        |                                  |
|----------------------------|------|--------|----------------------------------|
| Potencia instalada         | 76   | 79     | Kw, incluyendo pérdidas de calor |
| Coefficiente simultaneidad | 1,00 | 4,418% |                                  |

## CALCULO DE LA BOMBA

|                                |       |
|--------------------------------|-------|
| PERDIDA DE CARGA MAXIMA (mdca) | 1,27  |
| PERDIDA TOTAL TUBERIAS (mdca)  | 2,5   |
| VALVULA DE CONTROL (mdca)      | 5,4   |
| BATERIA (mdca)                 | 1,0   |
| VALVULA DE EQUILIBRADO (mdca)  | 2,6   |
| FILTRO (mdca)                  | 0,4   |
| VALVULAS (mdca)                | 0,1   |
| TOTAL (mdca)                   | 12,1  |
| SEGURIDAD (mdca)               | 13,3  |
| CAUDAL (m3/h)                  | 13,66 |



Proyecto BASICO Y DE EJECUCION FASE III HOSPITAL UNIVERSITARIO CLÍNICO SAN CARLOS

| INSTALACION DE VAPOR. CALCULO DE TUBERIAS.                 |          |     |       |        |         |      |        |      |      |      |        |                    |       |       |              |                   |              |              |        |         |        |
|--|----------|-----|-------|--------|---------|------|--------|------|------|------|--------|--------------------|-------|-------|--------------|-------------------|--------------|--------------|--------|---------|--------|
| Planta   | Montante | Pos | Tramo | Carga  | Vol esp | Qlns | DN     | Mat  | Long | Ltot | Pc     | Presión disponible | Pc/m  | V     | Caudal Carga | Caudal Condensado | Revaporizado | Caudal vapor | DN Ret | V revap | V cond |
|  |          |     |       | Kg/h   | m3/Kg   | m3/s | mm     |      | m    | m    | bar    | bar                | bar/m | m/s   | l/h          | l/h               | %            | m3/s         | mm     | m/s     | m/s    |
| Presión Línea condensado                                   |          |     |       |        |         |      |        |      |      |      |        |                    |       |       |              |                   |              | 1,500 bar    |        |         |        |
| PROYECTO: Hospital Clínico San Carlos Fase III             |          |     |       |        |         |      |        |      |      |      |        |                    |       |       |              | 1,500 bar         |              |              |        |         |        |
| CIRCUITO: PRODUCCION DE VAPOR ESTERILIZACION Y HUMECTACIÓN |          |     |       |        |         |      |        |      |      |      |        |                    |       |       |              | 495,9             |              |              |        |         |        |
| Vapor_F+M0   | +M0      | +M0 |       | 904,7  | 0,27    | 0,08 | 2 1/2" | FE   | 0,0  | 0,0  | 0,0000 | 6,000              | 0,002 | 20,95 | 435,8        | 495,9             | 7,4          | 0,007296     | 1 1/4" | 7,21    | 0,272  |
| Vapor_F+M0   |          |     | 1     | 904,7  | 0,27    | 0,08 | 2 1/2" | FE   | 0,2  | 1,6  | 0,0031 | 5,997              | 0,002 | 20,95 | 435,8        | 495,9             | 7,4          | 0,007293     | 1 1/4" | 7,20    | 0,272  |
| Vapor_F+M0   |          |     | 2     | 400,0  | 0,27    | 0,03 | 1 1/2" | FE   | 55,2 | 63,4 | 0,2822 | 5,715              | 0,004 | 22,75 | 410,9        | 423,8             | 7,1          | 0,005955     | 1"     | 10,25   | 0,405  |
| Vapor_F+M0   |          |     | 3     | 400,0  | 0,28    | 0,03 | 1 1/2" | FE   | 1,6  | 3,9  | 0,0172 | 4,000              | 0,004 | 23,15 | 402,4        | 406,2             | 4,8          | 0,003872     | 1"     | 6,66    | 0,388  |
| Vapor_F+M0   |          |     | 4     | 300,0  | 0,37    | 0,03 | 1 1/2" | FE   | 1,2  | 2,0  | 0,0068 | 3,993              | 0,003 | 22,86 | 301,8        | 303,8             | 4,8          | 0,002890     | 1"     | 4,97    | 0,290  |
| Vapor_F+M0   |          |     | 5     | 200,0  | 0,37    | 0,02 | 1 1/4" | FE   | 1,2  | 1,9  | 0,0064 | 3,987              | 0,003 | 20,64 | 201,1        | 202,1             | 4,8          | 0,001918     | 1"     | 3,30    | 0,193  |
| Vapor_F+M0   | ESTERILI |     | 6     | 100,0  | 0,37    | 0,01 | 1"     | FE   | 5,9  | 7,6  | 0,0284 | 3,958              | 0,004 | 17,96 | 100,6        | 100,8             | 4,7          | 0,000948     | 3/4"   | 2,59    | 0,153  |
| Vapor_F+M0   | ESTERILI |     | 7     | 100,0  | 0,37    | 0,01 | 1"     | FE   | 4,7  | 5,6  | 0,0207 | 3,966              | 0,004 | 17,95 | 100,4        | 100,6             | 4,7          | 0,000949     | 3/4"   | 2,59    | 0,153  |
| Vapor_F+M0   | ESTERILI |     | 8     | 100,0  | 0,37    | 0,01 | 1"     | FE   | 4,7  | 5,6  | 0,0207 | 3,973              | 0,004 | 17,93 | 100,4        | 100,6             | 4,8          | 0,000951     | 3/4"   | 2,60    | 0,153  |
| Vapor_F+M0   | ESTERILI |     | 9     | 100,0  | 0,37    | 0,01 | 1"     | FE   | 4,7  | 5,6  | 0,0206 | 3,979              | 0,004 | 17,91 | 100,4        | 100,6             | 4,8          | 0,000953     | 3/4"   | 2,60    | 0,153  |
| Vapor_F+M0   |          |     | 10    | 0,0000 | 0,00    | 0,00 |        | FE   | 2,5  | 2,5  | 0,0000 | 5,715              | 0,000 |       |              | 0,0               | 7,1          | 0,000000     |        |         |        |
| Vapor_F+M0   | MVP01    |     | 11    | 504,7  | 0,27    | 0,04 | 2"     | FE   | 57,4 | 68,6 | 0,1623 | 5,835              | 0,002 | 19,15 | 24,8         | 27,5              | 7,2          | 0,000394     | 3/4"   | 1,07    | 0,042  |
| Vapor_F+MVP01+MVP01  | MVPC     |     |       | 504,7  | 0,28    | 0,04 | 2"     | FE   | 4,0  | 4,0  | 0,0092 | 5,825              | 0,002 | 19,19 | 12,4         | 13,5              | 7,2          | 0,000193     | 3/4"   | 0,53    | 0,020  |
| Vapor_F+MVP01+MVP01  | MVPC     |     |       | 504,7  | 0,28    | 0,04 | 2"     | FE   | 4,0  | 5,1  | 0,0117 | 5,814              | 0,002 | 19,19 | 11,5         | 12,5              | 7,2          | 0,000179     | 3/4"   | 0,49    | 0,019  |
| Vapor_F+MVP01+MVP01  | MVPC     |     |       | 504,7  | 0,28    | 0,04 | 2"     | FE   | 4,0  | 4,0  | 0,0092 | 5,804              | 0,002 | 19,19 | 10,7         | 11,6              | 7,2          | 0,000165     | 3/4"   | 0,45    | 0,018  |
| Vapor_F+MVP01  |          |     | 1     | 504,7  | 0,60    | 0,09 | 65     | INOX | 5,1  | 14,6 | 0,0083 | 2,000              | 0,001 | 23,67 | 9,8          | 10,6              | 1,2          | 0,000025     | 3/4"   | 0,07    | 0,016  |
| Vapor_F+MVP01  |          |     | 2     | 356,0  | 0,60    | 0,06 | 50     | INOX | 1,8  | 3,0  | 0,0054 | 1,995              | 0,002 | 25,10 | 5,7          | 6,0               | 1,2          | 0,000014     | 3/4"   | 0,04    | 0,009  |
| Vapor_F+MVP01  |          |     | 3     | 294,7  | 0,60    | 0,05 | 50     | INOX | 2,8  | 4,0  | 0,0050 | 1,990              | 0,001 | 20,75 | 5,2          | 5,4               | 1,2          | 0,000013     | 3/4"   | 0,03    | 0,008  |
| Vapor_F+MVP01  |          |     | 4     | 118,6  | 0,61    | 0,02 | 32     | INOX | 3,7  | 4,5  | 0,0067 | 1,983              | 0,002 | 17,49 | 1,6          | 1,7               | 1,2          | 0,000004     | 3/4"   | 0,01    | 0,003  |
| Vapor_F+MVP01  |          |     | 5     | 88,3   | 0,61    | 0,02 | 25     | INOX | 8,7  | 9,3  | 0,0292 | 1,954              | 0,003 | 21,74 | 1,3          | 1,3               | 1,1          | 0,000003     | 3/4"   | 0,01    | 0,002  |
| Vapor_F+MVP01  |          |     | 6     | 48,5   | 0,61    | 0,01 | 20     | INOX | 0,8  | 1,3  | 0,0049 | 1,949              | 0,004 | 20,18 | 0,7          | 0,7               | 1,1          | 0,000001     | 3/4"   | 0,00    | 0,001  |
| Vapor_F+MVP01CL0202  |          |     | 7     | 11,0   | 0,61    | 0,00 | 15     | INOX | 14,4 | 15,5 | 0,0151 | 1,934              | 0,001 | 8,02  | 0,5          | 0,5               | 1,0          | 0,000001     | 1/2"   | 0,00    | 0,001  |
| Vapor_F+MVP01CL0201  |          |     | 8     | 37,5   | 0,61    | 0,01 | 20     | INOX | 4,1  | 4,8  | 0,0111 | 1,938              | 0,002 | 15,53 | 0,2          | 0,2               | 1,1          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01CL0207  |          |     | 9     | 39,8   | 0,61    | 0,01 | 20     | INOX | 3,8  | 4,4  | 0,0115 | 1,942              | 0,003 | 16,46 | 0,2          | 0,2               | 1,1          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01CL0222  |          |     | 10    | 30,3   | 0,61    | 0,01 | 15     | INOX | 4,1  | 4,6  | 0,0291 | 1,954              | 0,006 | 21,76 | 0,1          | 0,1               | 1,1          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01  |          |     | 11    | 176,1  | 0,61    | 0,03 | 40     | INOX | 9,0  | 11,4 | 0,0180 | 1,972              | 0,002 | 19,74 | 3,3          | 3,4               | 1,1          | 0,000008     | 3/4"   | 0,02    | 0,005  |
| Vapor_F+MVP01  |          |     | 12    | 157,2  | 0,61    | 0,03 | 32     | INOX | 1,2  | 1,9  | 0,0050 | 1,967              | 0,003 | 23,47 | 2,5          | 2,5               | 1,1          | 0,000006     | 3/4"   | 0,02    | 0,004  |
| Vapor_F+MVP01  |          |     | 13    | 140,7  | 0,61    | 0,02 | 32     | INOX | 3,2  | 4,0  | 0,0083 | 1,958              | 0,002 | 21,00 | 2,2          | 2,3               | 1,1          | 0,000005     | 3/4"   | 0,01    | 0,003  |
| Vapor_F+MVP01  |          |     | 14    | 52,4   | 0,61    | 0,01 | 20     | INOX | 4,6  | 5,0  | 0,0218 | 1,936              | 0,004 | 21,71 | 0,5          | 0,5               | 1,1          | 0,000001     | 3/4"   | 0,00    | 0,001  |
| Vapor_F+MVP01CL0212  |          |     | 15    | 18,9   | 0,62    | 0,00 | 15     | INOX | 4,3  | 5,4  | 0,0143 | 1,922              | 0,003 | 13,77 | 0,2          | 0,2               | 1,0          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01CL0206  |          |     | 16    | 33,5   | 0,62    | 0,01 | 20     | INOX | 3,8  | 4,5  | 0,0085 | 1,928              | 0,002 | 13,93 | 0,2          | 0,2               | 1,0          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01  |          |     | 17    | 88,3   | 0,61    | 0,02 | 25     | INOX | 2,3  | 4,2  | 0,0133 | 1,945              | 0,003 | 21,95 | 1,5          | 1,6               | 1,1          | 0,000003     | 3/4"   | 0,01    | 0,002  |
| Vapor_F+MVP01  |          |     | 18    | 69,4   | 0,61    | 0,01 | 25     | INOX | 4,6  | 5,2  | 0,0106 | 1,934              | 0,002 | 17,26 | 1,1          | 1,1               | 1,0          | 0,000002     | 3/4"   | 0,01    | 0,002  |
| Vapor_F+MVP01  |          |     | 19    | 50,5   | 0,62    | 0,01 | 20     | INOX | 9,4  | 9,8  | 0,0405 | 1,894              | 0,004 | 21,12 | 0,7          | 0,7               | 1,0          | 0,000001     | 3/4"   | 0,00    | 0,001  |
| Vapor_F+MVP01CL0210  |          |     | 20    | 18,9   | 0,62    | 0,00 | 15     | INOX | 4,6  | 5,8  | 0,0156 | 1,878              | 0,003 | 13,96 | 0,2          | 0,2               | 0,9          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01CL0220  |          |     | 21    | 31,6   | 0,62    | 0,01 | 20     | INOX | 4,1  | 4,8  | 0,0082 | 1,886              | 0,002 | 13,31 | 0,2          | 0,2               | 0,9          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01CL0211  |          |     | 22    | 18,9   | 0,62    | 0,00 | 15     | INOX | 4,2  | 4,7  | 0,0125 | 1,922              | 0,003 | 13,78 | 0,1          | 0,1               | 1,0          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01CL0213  |          |     | 23    | 18,9   | 0,61    | 0,00 | 15     | INOX | 8,7  | 9,9  | 0,0262 | 1,919              | 0,003 | 13,76 | 0,3          | 0,3               | 1,0          | 0,000001     | 1/2"   | 0,00    | 0,001  |
| Vapor_F+MVP01CL0223  |          |     | 24    | 16,5   | 0,61    | 0,00 | 15     | INOX | 3,9  | 4,4  | 0,0090 | 1,958              | 0,002 | 11,91 | 0,1          | 0,1               | 1,1          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01CL0214  |          |     | 25    | 18,9   | 0,61    | 0,00 | 15     | INOX | 3,9  | 4,4  | 0,0115 | 1,960              | 0,003 | 13,62 | 0,1          | 0,1               | 1,1          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01CL0221  |          |     | 26    | 61,3   | 0,60    | 0,01 | 25     | INOX | 6,4  | 8,3  | 0,0130 | 1,982              | 0,002 | 14,90 | 0,3          | 0,3               | 1,2          | 0,000001     | 1/2"   | 0,00    | 0,001  |
| Vapor_F+MVP01  |          |     | 27    | 148,7  | 0,60    | 0,03 | 32     | INOX | 4,7  | 5,5  | 0,0128 | 1,987              | 0,002 | 22,18 | 3,3          | 3,4               | 1,2          | 0,000008     | 3/4"   | 0,02    | 0,005  |
| Vapor_F+MVP01  |          |     | 28    | 92,0   | 0,61    | 0,02 | 25     | INOX | 4,2  | 4,8  | 0,0165 | 1,971              | 0,003 | 22,68 | 1,6          | 1,6               | 1,1          | 0,000004     | 3/4"   | 0,01    | 0,002  |
| Vapor_F+MVP01  |          |     | 29    | 73,1   | 0,61    | 0,01 | 25     | INOX | 0,2  | 0,8  | 0,0019 | 1,969              | 0,002 | 18,06 | 1,2          | 1,2               | 1,1          | 0,000003     | 3/4"   | 0,01    | 0,002  |
| Vapor_F+MVP01  |          |     | 30    | 56,6   | 0,61    | 0,01 | 25     | INOX | 9,3  | 9,8  | 0,0136 | 1,955              | 0,001 | 13,96 | 1,0          | 1,0               | 1,1          | 0,000002     | 3/4"   | 0,01    | 0,002  |
| Vapor_F+MVP01CL0208  |          |     | 31    | 37,7   | 0,61    | 0,01 | 20     | INOX | 11,3 | 12,8 | 0,0304 | 1,925              | 0,002 | 15,63 | 0,5          | 0,5               | 1,0          | 0,000001     | 1/2"   | 0,00    | 0,001  |
| Vapor_F+MVP01CL0217  |          |     | 32    | 18,9   | 0,61    | 0,00 | 15     | INOX | 4,0  | 4,5  | 0,0119 | 1,943              | 0,003 | 13,69 | 0,1          | 0,1               | 1,1          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01CL0224  |          |     | 33    | 16,5   | 0,61    | 0,00 | 15     | INOX | 4,7  | 5,2  | 0,0106 | 1,958              | 0,002 | 11,90 | 0,2          | 0,2               | 1,1          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01CL0219  |          |     | 34    | 18,9   | 0,61    | 0,00 | 15     | INOX | 4,0  | 4,5  | 0,0119 | 1,959              | 0,003 | 13,62 | 0,1          | 0,1               | 1,1          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01  |          |     | 35    | 56,7   | 0,61    | 0,01 | 25     | INOX | 7,2  | 8,8  | 0,0122 | 1,975              | 0,001 | 13,97 | 1,4          | 1,4               | 1,1          | 0,000003     | 1/2"   | 0,02    | 0,004  |
| Vapor_F+MVP01  |          |     | 36    | 37,8   | 0,61    | 0,01 | 20     | INOX | 8,6  | 9,1  | 0,0216 | 1,953              | 0,002 | 15,66 | 0,9          | 0,9               | 1,1          | 0,000002     | 1/2"   | 0,01    | 0,002  |
| Vapor_F+MVP01CL0215  |          |     | 37    | 18,9   | 0,61    | 0,00 | 15     | INOX | 12,9 | 14,1 | 0,0375 | 1,916              | 0,003 | 13,74 | 0,4          | 0,4               | 1,0          | 0,000001     | 1/2"   | 0,00    | 0,001  |
| Vapor_F+MVP01CL0216  |          |     | 38    | 18,9   | 0,61    | 0,00 | 15     | INOX | 3,9  | 4,4  | 0,0117 | 1,942              | 0,003 | 13,70 | 0,1          | 0,1               | 1,1          | 0,000000     | 1/2"   | 0,00    | 0,000  |
| Vapor_F+MVP01CL0218  |          |     | 39    | 18,9   | 0,61    | 0,00 | 15     | INOX | 3,9  | 4,4  | 0,0116 | 1,963              | 0,003 | 13,60 | 0,1          | 0,1               | 1,1          | 0,000000     | 1/2"   | 0,00    | 0,000  |

|                            |       |
|----------------------------|-------|
| Carga instalada            | 904,7 |
| Coeeficiente simultaneidad | 1,00  |



#### **1.4.- CÁLCULOS DE CONDUCTOS**



## SIZE DATA

System name : 0103I

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

Page 1 Of 2

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 85.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1916.7          | 6.4      | 600.0               | 500.0  | 600.0                 | 500.0  |
| 2   | REC   | 1916.7          | 6.4      | 600.0               | 500.0  | 600.0                 | 500.0  |
| 3   | REC   | 1517.8          | 6.3      | 600.0               | 400.0  | 600.0                 | 400.0  |
| 4   | REC   | 1357.8          | 5.7      | 600.0               | 400.0  | 600.0                 | 400.0  |
| 5   | REC   | 1197.8          | 5.4      | 550.0               | 400.0  | 550.0                 | 400.0  |
| 6   | REC   | 1137.1          | 5.2      | 550.0               | 400.0  | 550.0                 | 400.0  |
| 7   | REC   | 1098.2          | 5.0      | 550.0               | 400.0  | 550.0                 | 400.0  |
| 8   | REC   | 1098.2          | 5.0      | 550.0               | 400.0  | 550.0                 | 400.0  |
| 9   | REC   | 950.9           | 4.8      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 10  | REC   | 910.9           | 4.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 11  | REC   | 800.0           | 5.0      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 12  | REC   | 480.0           | 5.3      | 300.0               | 300.0  | 300.0                 | 300.0  |
| 13  | REC   | 320.0           | 5.3      | 200.0               | 300.0  | 200.0                 | 300.0  |
| 14  | REC   | 320.0           | 5.3      | 200.0               | 300.0  | 200.0                 | 300.0  |
| 15  | REC   | 160.0           | 4.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 16  | RND   | 160.0           | 5.1      | -----               | 200.0  | -----                 | 200.0  |
| 17  | REC   | 160.0           | 4.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 18  | RND   | 160.0           | 5.1      | -----               | 200.0  | -----                 | 200.0  |
| 19  | REC   | 160.0           | 4.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 20  | REC   | 160.0           | 4.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 21  | RND   | 160.0           | 5.1      | -----               | 200.0  | -----                 | 200.0  |
| 22  | REC   | 320.0           | 5.3      | 300.0               | 200.0  | 300.0                 | 200.0  |
| 23  | REC   | 320.0           | 5.3      | 300.0               | 200.0  | 300.0                 | 200.0  |
| 24  | REC   | 160.0           | 4.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 25  | RND   | 160.0           | 5.1      | -----               | 200.0  | -----                 | 200.0  |
| 26  | REC   | 160.0           | 4.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 27  | RND   | 160.0           | 5.1      | -----               | 200.0  | -----                 | 200.0  |
| 28  | REC   | 110.9           | 3.7      | 150.0               | 200.0  | 150.0                 | 200.0  |
| 29  | REC   | 72.0            | 2.4      | 150.0               | 200.0  | 150.0                 | 200.0  |
| 30  | REC   | 0.0             | 0.0      | 150.0               | 200.0  | 150.0                 | 200.0  |
| 31  | RND   | 72.0            | 3.6      | -----               | 160.0  | -----                 | 160.0  |
| 32  | RND   | 38.9            | 3.2      | -----               | 125.0  | -----                 | 125.0  |
| 33  | REC   | 40.0            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 34  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 35  | REC   | 107.3           | 3.6      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 36  | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 37  | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 38  | RND   | 75.0            | 3.7      | -----               | 160.0  | -----                 | 160.0  |
| 39  | RND   | 32.3            | 2.6      | -----               | 125.0  | -----                 | 125.0  |
| 40  | REC   | 40.0            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 41  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 42  | RND   | 38.9            | 3.2      | -----               | 125.0  | -----                 | 125.0  |
| 43  | REC   | 60.7            | 2.7      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 44  | RND   | 60.7            | 3.0      | -----               | 160.0  | -----                 | 160.0  |
| 45  | REC   | 160.0           | 4.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 46  | REC   | 80.0            | 3.6      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 47  | REC   | 40.0            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 48  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 49  | REC   | 40.0            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## SIZE DATA

System name : 0103I

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 85. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 50  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 51  | REC   | 40.0            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 52  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 53  | RND   | 40.0            | 5.1      | -----               | 100.0  | -----                 | 100.0  |
| 54  | REC   | 40.0            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 55  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 56  | REC   | 80.0            | 3.6      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 57  | REC   | 40.0            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 58  | RND   | 40.0            | 5.1      | -----               | 100.0  | -----                 | 100.0  |
| 59  | REC   | 40.0            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 60  | RND   | 40.0            | 5.1      | -----               | 100.0  | -----                 | 100.0  |
| 61  | REC   | 80.0            | 3.6      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 62  | REC   | 40.0            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 63  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 64  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 65  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 66  | REC   | 398.9           | 5.3      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 67  | REC   | 238.9           | 6.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 68  | REC   | 200.0           | 5.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 69  | REC   | 160.0           | 4.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 70  | REC   | 160.0           | 4.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 71  | RND   | 160.0           | 5.1      | -----               | 200.0  | -----                 | 200.0  |
| 72  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 73  | RND   | 38.9            | 5.0      | -----               | 100.0  | -----                 | 100.0  |
| 74  | REC   | 160.0           | 4.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 75  | REC   | 120.0           | 4.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 76  | REC   | 80.0            | 3.6      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 77  | REC   | 40.0            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 78  | REC   | 40.0            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 79  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 80  | REC   | 40.0            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 81  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 82  | REC   | 40.0            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 83  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 84  | REC   | 40.0            | 1.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 85  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |

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## PRESSURE LOSS DATA

System name : 0103I

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 85.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0007        |
| 2   | 0.0064      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0078        |
| 3   | 0.0068      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0087        |
| 4   | 0.0003      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0034        |
| 5   | -0.0003     | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0009        |
| 6   | -0.0002     | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0012        |
| 7   | 0.0001      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0025        |
| 8   | 0.0041      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0050        |
| 9   | 0.0001      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0018        |
| 10  | -0.0001     | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0009        |
| 11  | -0.0002     | 0.0000                    | 0.0000                | 0.0067       | 0.0000        | 0.0000          | 0.0065        |
| 12  | 0.0045      | 0.0000                    | 0.0000                | 0.0116       | 0.0000        | 0.0000          | 0.0161        |
| 13  | -0.0006     | 0.0000                    | 0.0000                | 0.0129       | 0.0000        | 0.0000          | 0.0124        |
| 14  | 0.0044      | 0.0000                    | 0.0000                | 0.0086       | 0.0000        | 0.0000          | 0.0129        |
| 15  | 0.0050      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.0071        |
| 16  | 0.0000      | 0.0140                    | 0.0000                | 0.0037       | 0.0000        | 0.0000          | 0.0177        |
| 17  | 0.0050      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0015          | 0.0080        |
| 18  | 0.0000      | 0.0140                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0168        |
| 19  | 0.0066      | 0.0000                    | 0.0000                | 0.0065       | 0.0000        | 0.0172          | 0.0303        |
| 20  | 0.0030      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0041        |
| 21  | 0.0000      | 0.0140                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0158        |
| 22  | 0.0046      | 0.0000                    | 0.0000                | 0.0098       | 0.0000        | 0.0178          | 0.0321        |
| 23  | 0.0054      | 0.0000                    | 0.0000                | 0.0050       | 0.0000        | 0.0000          | 0.0104        |
| 24  | 0.0050      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0009          | 0.0073        |
| 25  | 0.0000      | 0.0140                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0164        |
| 26  | 0.0050      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0067        |
| 27  | 0.0000      | 0.0140                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0170        |
| 28  | 0.0069      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0425          | 0.0499        |
| 29  | 0.0004      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0020          | 0.0031        |
| 30  | 0.0014      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0184          | 0.0198        |
| 31  | 0.0049      | 0.0140                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0198        |
| 32  | 0.0079      | 0.0140                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0229        |
| 33  | 0.0076      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0512          | 0.0590        |
| 34  | 0.0000      | 0.0140                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0146        |
| 35  | 0.0277      | 0.0000                    | 0.0000                | 0.0045       | 0.0000        | 0.0158          | 0.0479        |
| 36  | 0.0001      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0025        |
| 37  | 0.0023      | 0.0000                    | 0.0000                | 0.0061       | 0.0000        | 0.0000          | 0.0084        |
| 38  | 0.0000      | 0.0140                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0166        |
| 39  | 0.0070      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0060          | 0.0275        |
| 40  | 0.0319      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0288          | 0.0608        |
| 41  | 0.0000      | 0.0140                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0146        |
| 42  | 0.0141      | 0.0140                    | 0.0000                | 0.0006       | 0.0000        | 0.0543          | 0.0830        |
| 43  | 0.0100      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0587          | 0.0694        |
| 44  | 0.0000      | 0.0140                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0148        |
| 45  | 0.0106      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0443          | 0.0567        |
| 46  | 0.0001      | 0.0000                    | 0.0000                | 0.0032       | 0.0000        | 0.0078          | 0.0111        |
| 47  | 0.0019      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0022        |
| 48  | 0.0000      | 0.0140                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0150        |
| 49  | 0.0019      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0022        |
| 50  | 0.0000      | 0.0140                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0150        |



## PRESSURE LOSS DATA

System name : 0103I

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 85. (Continued)

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 51  | 0.0099      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0102        |
| 52  | 0.0000      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0010        |
| 53  | 0.0014      | 0.0140                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0171        |
| 54  | 0.0099      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0031          | 0.0133        |
| 55  | 0.0000      | 0.0140                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0150        |
| 56  | 0.0516      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0118          | 0.0655        |
| 57  | 0.0019      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0020          | 0.0043        |
| 58  | 0.0000      | 0.0140                    | 0.0000                | 0.0046       | 0.0000        | 0.0000          | 0.0186        |
| 59  | 0.0019      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0025        |
| 60  | 0.0000      | 0.0140                    | 0.0000                | 0.0065       | 0.0000        | 0.0000          | 0.0205        |
| 61  | 0.0516      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0116          | 0.0666        |
| 62  | 0.0008      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0031          | 0.0048        |
| 63  | 0.0008      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0163          | 0.0171        |
| 64  | 0.0027      | 0.0140                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0171        |
| 65  | 0.0075      | 0.0140                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0219        |
| 66  | 0.0075      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0438          | 0.0541        |
| 67  | 0.0052      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0069        |
| 68  | 0.0004      | 0.0000                    | 0.0000                | 0.0055       | 0.0000        | 0.0016          | 0.0074        |
| 69  | 0.0003      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0077          | 0.0093        |
| 70  | 0.0030      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0039        |
| 71  | 0.0000      | 0.0140                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0156        |
| 72  | 0.0134      | 0.0140                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0288        |
| 73  | 0.0204      | 0.0140                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0362        |
| 74  | 0.0052      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0121          | 0.0179        |
| 75  | 0.0001      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0026        |
| 76  | 0.0010      | 0.0000                    | 0.0000                | 0.0043       | 0.0000        | 0.0000          | 0.0053        |
| 77  | 0.0005      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0005          | 0.0018        |
| 78  | 0.0007      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0009        |
| 79  | 0.0000      | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0147        |
| 80  | 0.0025      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0027        |
| 81  | 0.0000      | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0147        |
| 82  | 0.0040      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0037          | 0.0079        |
| 83  | 0.0000      | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0147        |
| 84  | 0.0055      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0050          | 0.0105        |
| 85  | 0.0000      | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0147        |

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## C-VALUE DATA

System name : 0103I

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 85.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0271 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2568  | 0.0000            | 0.0000        | 0.0542 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2700  | 0.0000            | 0.0000        | 0.0784 | 0.0000 | 0.0000  |
| 4   | 3   | 0.0105  | 0.0000            | 0.0000        | 0.1598 | 0.0000 | 0.0000  |
| 5   | 4   | -0.0136 | 0.0000            | 0.0000        | 0.0628 | 0.0000 | 0.0000  |
| 6   | 5   | -0.0100 | 0.0000            | 0.0000        | 0.0826 | 0.0000 | 0.0000  |
| 7   | 6   | 0.0034  | 0.0000            | 0.0000        | 0.1621 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2666  | 0.0000            | 0.0000        | 0.0622 | 0.0000 | 0.0000  |
| 9   | 8   | 0.0048  | 0.0000            | 0.0000        | 0.1225 | 0.0000 | 0.0000  |
| 10  | 9   | -0.0100 | 0.0000            | 0.0000        | 0.0791 | 0.0000 | 0.0000  |
| 11  | 10  | -0.0144 | 0.0000            | 0.0000        | 0.4349 | 0.0000 | 0.0000  |
| 12  | 11  | 0.2938  | 0.0000            | 0.0000        | 0.6657 | 0.0000 | 0.0000  |
| 13  | 12  | -0.0322 | 0.0000            | 0.0000        | 0.7403 | 0.0000 | 0.0000  |
| 14  | 13  | 0.2490  | 0.0000            | 0.0000        | 0.4909 | 0.0000 | 0.0000  |
| 15  | 14  | 0.2833  | 0.0000            | 0.0000        | 0.2194 | 0.0000 | 0.0000  |
| 16  | 15  | 0.0000  | 0.8786            | 0.0000        | 0.2352 | 0.0000 | 0.0000  |
| 17  | 14  | 0.2833  | 0.0000            | 0.0000        | 0.1647 | 0.0000 | 0.1498  |
| 18  | 17  | 0.0000  | 0.8786            | 0.0000        | 0.1766 | 0.0000 | 0.0000  |
| 19  | 12  | 0.3784  | 0.0000            | 0.0000        | 0.6603 | 0.0000 | 1.7500  |
| 20  | 19  | 0.3067  | 0.0000            | 0.0000        | 0.1056 | 0.0000 | 0.0000  |
| 21  | 20  | 0.0000  | 0.8786            | 0.0000        | 0.1132 | 0.0000 | 0.0000  |
| 22  | 11  | 0.3000  | 0.0000            | 0.0000        | 0.5592 | 0.0000 | 1.0164  |
| 23  | 22  | 0.3102  | 0.0000            | 0.0000        | 0.2863 | 0.0000 | 0.0000  |
| 24  | 23  | 0.2833  | 0.0000            | 0.0000        | 0.1430 | 0.0000 | 0.0958  |
| 25  | 24  | 0.0000  | 0.8786            | 0.0000        | 0.1533 | 0.0000 | 0.0000  |
| 26  | 23  | 0.2833  | 0.0000            | 0.0000        | 0.1780 | 0.0000 | 0.0000  |
| 27  | 26  | 0.0000  | 0.8786            | 0.0000        | 0.1908 | 0.0000 | 0.0000  |
| 28  | 10  | 0.5391  | 0.0000            | 0.0000        | 0.0603 | 0.0000 | 5.0643  |
| 29  | 28  | 0.0502  | 0.0000            | 0.0000        | 0.1951 | 0.0000 | 0.5527  |
| 30  | 29  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 31  | 29  | 1.3881  | 1.7772            | 0.0000        | 0.1169 | 0.0000 | 0.0000  |
| 32  | 28  | 0.9431  | 2.2670            | 0.0000        | 0.1590 | 0.0000 | 0.0000  |
| 33  | 9   | 0.5500  | 0.0000            | 0.0000        | 0.0778 | 0.0000 | 26.3953 |
| 34  | 33  | 0.0000  | 2.1451            | 0.0000        | 0.0967 | 0.0000 | 0.0000  |
| 35  | 8   | 1.8091  | 0.0000            | 0.0000        | 0.5672 | 0.0000 | 2.0069  |
| 36  | 35  | 0.0068  | 0.0000            | 0.0000        | 0.3590 | 0.0000 | 0.0000  |
| 37  | 36  | 0.3319  | 0.0000            | 0.0000        | 0.9008 | 0.0000 | 0.0000  |
| 38  | 37  | 0.0000  | 1.6379            | 0.0000        | 0.3032 | 0.0000 | 0.0000  |
| 39  | 35  | 0.8961  | 3.2857            | 0.0000        | 0.1172 | 0.0000 | 1.3999  |
| 40  | 8   | 2.0818  | 0.0000            | 0.0000        | 0.0801 | 0.0000 | 14.8160 |
| 41  | 40  | 0.0000  | 2.1451            | 0.0000        | 0.0996 | 0.0000 | 0.0000  |
| 42  | 6   | 0.8618  | 2.2670            | 0.0000        | 0.0936 | 0.0000 | 8.7907  |
| 43  | 5   | 0.5500  | 0.0000            | 0.0000        | 0.1431 | 0.0000 | 13.1473 |
| 44  | 43  | 0.0000  | 2.5022            | 0.0000        | 0.1408 | 0.0000 | 0.0000  |
| 45  | 4   | 0.5411  | 0.0000            | 0.0000        | 0.1842 | 0.0000 | 4.5065  |
| 46  | 45  | 0.0111  | 0.0000            | 0.0000        | 0.4083 | 0.0000 | 1.0105  |
| 47  | 46  | 0.2500  | 0.0000            | 0.0000        | 0.1243 | 0.0000 | 0.0000  |
| 48  | 47  | 0.0000  | 2.1451            | 0.0000        | 0.1544 | 0.0000 | 0.0000  |
| 49  | 46  | 0.2500  | 0.0000            | 0.0000        | 0.1263 | 0.0000 | 0.0062  |
| 50  | 49  | 0.0000  | 2.1451            | 0.0000        | 0.1520 | 0.0000 | 0.0000  |
| 51  | 45  | 1.0094  | 0.0000            | 0.0000        | 0.1243 | 0.0000 | 0.0000  |
| 52  | 51  | 0.0000  | 0.0000            | 0.0000        | 0.1544 | 0.0000 | 0.0000  |
| 53  | 52  | 0.2200  | 0.8786            | 0.0000        | 0.1074 | 0.0000 | 0.0000  |



## C-VALUE DATA

System name : 0103I

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 85. (Continued)

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 54  | 45  | 1.0094 | 0.0000            | 0.0000        | 0.1243 | 0.0000 | 1.6212  |
| 55  | 54  | 0.0000 | 2.1451            | 0.0000        | 0.1544 | 0.0000 | 0.0000  |
| 56  | 3   | 2.1000 | 0.0000            | 0.0000        | 0.2681 | 0.0000 | 1.5208  |
| 57  | 56  | 0.2500 | 0.0000            | 0.0000        | 0.1923 | 0.0000 | 1.0369  |
| 58  | 57  | 0.0000 | 0.8786            | 0.0000        | 0.2915 | 0.0000 | 0.0000  |
| 59  | 56  | 0.2500 | 0.0000            | 0.0000        | 0.2694 | 0.0000 | 0.0000  |
| 60  | 59  | 0.0000 | 0.8786            | 0.0000        | 0.4085 | 0.0000 | 0.0000  |
| 61  | 3   | 2.1000 | 0.0000            | 0.0000        | 0.4302 | 0.0000 | 1.4969  |
| 62  | 61  | 0.1000 | 0.0000            | 0.0000        | 0.4926 | 0.0000 | 1.5742  |
| 63  | 62  | 0.0000 | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 64  | 62  | 1.4000 | 2.1451            | 0.0000        | 0.0601 | 0.0000 | 0.0000  |
| 65  | 61  | 0.9667 | 2.1451            | 0.0000        | 0.0601 | 0.0000 | 0.0000  |
| 66  | 2   | 0.3000 | 0.0000            | 0.0000        | 0.1623 | 0.0000 | 2.5179  |
| 67  | 66  | 0.2967 | 0.0000            | 0.0000        | 0.0780 | 0.0000 | 0.0000  |
| 68  | 67  | 0.0163 | 0.0000            | 0.0000        | 0.3572 | 0.0000 | 0.1031  |
| 69  | 68  | 0.0200 | 0.0000            | 0.0000        | 0.1285 | 0.0000 | 0.7833  |
| 70  | 69  | 0.3067 | 0.0000            | 0.0000        | 0.0924 | 0.0000 | 0.0000  |
| 71  | 70  | 0.0000 | 0.8786            | 0.0000        | 0.0990 | 0.0000 | 0.0000  |
| 72  | 68  | 0.8725 | 2.1451            | 0.0000        | 0.2096 | 0.0000 | 0.0000  |
| 73  | 67  | 0.9318 | 0.9285            | 0.0000        | 0.1177 | 0.0000 | 0.0000  |
| 74  | 66  | 0.2967 | 0.0000            | 0.0000        | 0.0677 | 0.0000 | 1.2276  |
| 75  | 74  | 0.0065 | 0.0000            | 0.0000        | 0.2538 | 0.0000 | 0.0000  |
| 76  | 75  | 0.1000 | 0.0000            | 0.0000        | 0.5549 | 0.0000 | 0.0000  |
| 77  | 76  | 0.0600 | 0.0000            | 0.0000        | 0.4310 | 0.0000 | 0.2372  |
| 78  | 77  | 0.3718 | 0.0000            | 0.0000        | 0.0863 | 0.0000 | 0.0000  |
| 79  | 78  | 0.0000 | 2.1451            | 0.0000        | 0.1024 | 0.0000 | 0.0000  |
| 80  | 76  | 0.3200 | 0.0000            | 0.0000        | 0.0863 | 0.0000 | 0.0000  |
| 81  | 80  | 0.0000 | 2.1451            | 0.0000        | 0.1024 | 0.0000 | 0.0000  |
| 82  | 75  | 0.4100 | 0.0000            | 0.0000        | 0.0863 | 0.0000 | 1.9301  |
| 83  | 82  | 0.0000 | 2.1451            | 0.0000        | 0.1024 | 0.0000 | 0.0000  |
| 84  | 74  | 0.5546 | 0.0000            | 0.0000        | 0.0684 | 0.0000 | 8.1555  |
| 85  | 84  | 0.0000 | 2.1451            | 0.0000        | 0.1024 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0103I

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 1916.7 L/s |
| Fan Static Pressure .....                     | :           | 0.0442 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.1056 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.1056 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.1056 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.0442 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.1056 kPa |
| Total Downstream Losses ..... | : | 0.1056 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0103I

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 85.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.1056            | 0.0806             | 6.4      | 0.0251               | 26.1880 E+04       |
| 2   | 0.1050            | 0.0799             | 6.4      | 0.0251               | 26.1880 E+04       |
| 3   | 0.0972            | 0.0726             | 6.3      | 0.0246               | 23.0914 E+04       |
| 4   | 0.0885            | 0.0688             | 5.7      | 0.0197               | 20.6573 E+04       |
| 5   | 0.0851            | 0.0669             | 5.4      | 0.0182               | 19.0705 E+04       |
| 6   | 0.0842            | 0.0678             | 5.2      | 0.0164               | 18.1044 E+04       |
| 7   | 0.0830            | 0.0677             | 5.0      | 0.0153               | 17.4849 E+04       |
| 8   | 0.0805            | 0.0652             | 5.0      | 0.0153               | 17.4849 E+04       |
| 9   | 0.0754            | 0.0616             | 4.8      | 0.0139               | 15.9039 E+04       |
| 10  | 0.0737            | 0.0609             | 4.6      | 0.0127               | 15.2349 E+04       |
| 11  | 0.0728            | 0.0574             | 5.0      | 0.0154               | 14.9824 E+04       |
| 12  | 0.0663            | 0.0488             | 5.3      | 0.0175               | 11.9859 E+04       |
| 13  | 0.0502            | 0.0327             | 5.3      | 0.0175               | 9.7367 E+04        |
| 14  | 0.0378            | 0.0203             | 5.3      | 0.0175               | 9.7367 E+04        |
| 15  | 0.0249            | 0.0150             | 4.0      | 0.0098               | 5.9930 E+04        |
| 16  | 0.0177            | 0.0018             | 5.1      | 0.0159               | 6.9802 E+04        |
| 17  | 0.0234            | 0.0136             | 4.0      | 0.0098               | 5.9930 E+04        |
| 18  | 0.0168            | 0.0009             | 5.1      | 0.0159               | 6.9802 E+04        |
| 19  | 0.0330            | 0.0231             | 4.0      | 0.0098               | 5.9930 E+04        |
| 20  | 0.0199            | 0.0100             | 4.0      | 0.0098               | 5.9930 E+04        |
| 21  | 0.0158            | -0.0001            | 5.1      | 0.0159               | 6.9802 E+04        |
| 22  | 0.0485            | 0.0311             | 5.3      | 0.0175               | 9.7367 E+04        |
| 23  | 0.0342            | 0.0167             | 5.3      | 0.0175               | 9.7367 E+04        |
| 24  | 0.0228            | 0.0130             | 4.0      | 0.0098               | 5.9930 E+04        |
| 25  | 0.0164            | 0.0005             | 5.1      | 0.0159               | 6.9802 E+04        |
| 26  | 0.0237            | 0.0139             | 4.0      | 0.0098               | 5.9930 E+04        |
| 27  | 0.0170            | 0.0011             | 5.1      | 0.0159               | 6.9802 E+04        |
| 28  | 0.0303            | 0.0219             | 3.7      | 0.0084               | 4.7846 E+04        |
| 29  | 0.0209            | 0.0174             | 2.4      | 0.0035               | 3.1060 E+04        |
| 30  | 0.0014            | 0.0014             | 0.0      | 0.0000               | 0.0000 E+04        |
| 31  | 0.0198            | 0.0120             | 3.6      | 0.0079               | 3.9264 E+04        |
| 32  | 0.0229            | 0.0167             | 3.2      | 0.0062               | 2.7160 E+04        |
| 33  | 0.0224            | 0.0205             | 1.8      | 0.0019               | 1.9977 E+04        |
| 34  | 0.0146            | 0.0081             | 3.3      | 0.0065               | 2.7921 E+04        |
| 35  | 0.0597            | 0.0518             | 3.6      | 0.0079               | 4.6297 E+04        |
| 36  | 0.0275            | 0.0207             | 3.3      | 0.0068               | 3.7456 E+04        |
| 37  | 0.0250            | 0.0182             | 3.3      | 0.0068               | 3.7456 E+04        |
| 38  | 0.0166            | 0.0080             | 3.7      | 0.0085               | 4.0899 E+04        |
| 39  | 0.0215            | 0.0173             | 2.6      | 0.0043               | 2.2560 E+04        |
| 40  | 0.0467            | 0.0447             | 1.8      | 0.0019               | 1.9977 E+04        |
| 41  | 0.0146            | 0.0081             | 3.3      | 0.0065               | 2.7921 E+04        |
| 42  | 0.0287            | 0.0225             | 3.2      | 0.0062               | 2.7160 E+04        |
| 43  | 0.0254            | 0.0210             | 2.7      | 0.0045               | 3.0304 E+04        |
| 44  | 0.0148            | 0.0092             | 3.0      | 0.0056               | 3.3090 E+04        |
| 45  | 0.0408            | 0.0309             | 4.0      | 0.0098               | 5.9930 E+04        |
| 46  | 0.0205            | 0.0127             | 3.6      | 0.0078               | 3.9953 E+04        |
| 47  | 0.0172            | 0.0152             | 1.8      | 0.0019               | 1.9977 E+04        |
| 48  | 0.0150            | 0.0085             | 3.3      | 0.0065               | 2.7921 E+04        |
| 49  | 0.0172            | 0.0152             | 1.8      | 0.0019               | 1.9977 E+04        |
| 50  | 0.0150            | 0.0085             | 3.3      | 0.0065               | 2.7921 E+04        |
| 51  | 0.0283            | 0.0264             | 1.8      | 0.0019               | 1.9977 E+04        |



## PRESSURE LOSS DATA II

System name : 0103I

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 85. (Continued)

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 52  | 0.0182            | 0.0116             | 3.3      | 0.0065               | 2.7921 E+04        |
| 53  | 0.0171            | 0.0012             | 5.1      | 0.0159               | 3.4901 E+04        |
| 54  | 0.0252            | 0.0232             | 1.8      | 0.0019               | 1.9977 E+04        |
| 55  | 0.0150            | 0.0085             | 3.3      | 0.0065               | 2.7921 E+04        |
| 56  | 0.0767            | 0.0689             | 3.6      | 0.0078               | 3.9953 E+04        |
| 57  | 0.0210            | 0.0190             | 1.8      | 0.0019               | 1.9977 E+04        |
| 58  | 0.0186            | 0.0027             | 5.1      | 0.0159               | 3.4901 E+04        |
| 59  | 0.0230            | 0.0210             | 1.8      | 0.0019               | 1.9977 E+04        |
| 60  | 0.0205            | 0.0046             | 5.1      | 0.0159               | 3.4901 E+04        |
| 61  | 0.0768            | 0.0691             | 3.6      | 0.0078               | 3.9953 E+04        |
| 62  | 0.0188            | 0.0169             | 1.8      | 0.0019               | 1.9977 E+04        |
| 63  | 0.0008            | 0.0008             | 0.0      | 0.0000               | 0.0000 E+04        |
| 64  | 0.0171            | 0.0106             | 3.3      | 0.0065               | 2.7921 E+04        |
| 65  | 0.0219            | 0.0154             | 3.3      | 0.0065               | 2.7921 E+04        |
| 66  | 0.0534            | 0.0360             | 5.3      | 0.0174               | 10.9005 E+04       |
| 67  | 0.0431            | 0.0211             | 6.0      | 0.0219               | 8.9486 E+04        |
| 68  | 0.0346            | 0.0193             | 5.0      | 0.0154               | 7.4912 E+04        |
| 69  | 0.0211            | 0.0112             | 4.0      | 0.0098               | 5.9930 E+04        |
| 70  | 0.0195            | 0.0097             | 4.0      | 0.0098               | 5.9930 E+04        |
| 71  | 0.0156            | -0.0004            | 5.1      | 0.0159               | 6.9802 E+04        |
| 72  | 0.0288            | 0.0222             | 3.3      | 0.0065               | 2.7921 E+04        |
| 73  | 0.0362            | 0.0211             | 5.0      | 0.0151               | 3.3950 E+04        |
| 74  | 0.0310            | 0.0212             | 4.0      | 0.0098               | 5.9930 E+04        |
| 75  | 0.0252            | 0.0153             | 4.0      | 0.0098               | 5.1767 E+04        |
| 76  | 0.0226            | 0.0148             | 3.6      | 0.0078               | 3.9953 E+04        |
| 77  | 0.0169            | 0.0149             | 1.8      | 0.0019               | 1.9977 E+04        |
| 78  | 0.0156            | 0.0136             | 1.8      | 0.0019               | 1.9977 E+04        |
| 79  | 0.0147            | 0.0081             | 3.3      | 0.0065               | 2.7921 E+04        |
| 80  | 0.0173            | 0.0154             | 1.8      | 0.0019               | 1.9977 E+04        |
| 81  | 0.0147            | 0.0081             | 3.3      | 0.0065               | 2.7921 E+04        |
| 82  | 0.0189            | 0.0169             | 1.8      | 0.0019               | 1.9977 E+04        |
| 83  | 0.0147            | 0.0081             | 3.3      | 0.0065               | 2.7921 E+04        |
| 84  | 0.0202            | 0.0195             | 1.0      | 0.0006               | 1.4982 E+04        |
| 85  | 0.0147            | 0.0081             | 3.3      | 0.0065               | 2.7921 E+04        |

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## SIZE DATA

System name : 0101R

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 133.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1725.0          | 6.3      | 550.0               | 500.0  | 550.0                 | 500.0  |
| 2   | REC   | 1725.0          | 6.3      | 550.0               | 500.0  | 550.0                 | 500.0  |
| 3   | REC   | 1345.9          | 6.1      | 550.0               | 400.0  | 550.0                 | 400.0  |
| 4   | REC   | 1265.3          | 5.8      | 550.0               | 400.0  | 550.0                 | 400.0  |
| 5   | REC   | 1224.1          | 6.1      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 6   | REC   | 1169.9          | 5.8      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 7   | REC   | 1115.6          | 6.2      | 450.0               | 400.0  | 450.0                 | 400.0  |
| 8   | REC   | 125.0           | 4.2      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 9   | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 10  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 11  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 12  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 13  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 14  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 15  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 16  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 17  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 18  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 19  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 20  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 21  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 22  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 23  | REC   | 990.6           | 5.5      | 450.0               | 400.0  | 450.0                 | 400.0  |
| 24  | REC   | 914.2           | 5.8      | 450.0               | 350.0  | 450.0                 | 350.0  |
| 25  | REC   | 841.4           | 5.3      | 450.0               | 350.0  | 450.0                 | 350.0  |
| 26  | REC   | 692.6           | 5.1      | 450.0               | 300.0  | 450.0                 | 300.0  |
| 27  | REC   | 400.6           | 3.8      | 350.0               | 300.0  | 350.0                 | 300.0  |
| 28  | REC   | 292.0           | 4.2      | 350.0               | 200.0  | 350.0                 | 200.0  |
| 29  | REC   | 183.5           | 3.7      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 30  | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 31  | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 32  | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 33  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 34  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 35  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 36  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 37  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 38  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 39  | RND   | 108.5           | 3.5      | -----               | 200.0  | -----                 | 200.0  |
| 40  | RND   | 108.5           | 3.5      | -----               | 200.0  | -----                 | 200.0  |
| 41  | RND   | 108.5           | 3.5      | -----               | 200.0  | -----                 | 200.0  |
| 42  | REC   | 292.0           | 3.9      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 43  | REC   | 183.5           | 4.1      | 300.0               | 150.0  | 300.0                 | 150.0  |
| 44  | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 45  | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 46  | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 47  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 48  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 49  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## SIZE DATA

System name : 0101R

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 133. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 50  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 51  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 52  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 53  | RND   | 108.5           | 3.5      | -----               | 200.0  | -----                 | 200.0  |
| 54  | RND   | 108.5           | 3.5      | -----               | 200.0  | -----                 | 200.0  |
| 55  | REC   | 148.8           | 3.7      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 56  | REC   | 148.8           | 5.0      | 150.0               | 200.0  | 150.0                 | 200.0  |
| 57  | REC   | 123.8           | 4.1      | 150.0               | 200.0  | 150.0                 | 200.0  |
| 58  | REC   | 98.8            | 3.3      | 150.0               | 200.0  | 150.0                 | 200.0  |
| 59  | RND   | 48.8            | 6.2      | -----               | 100.0  | -----                 | 100.0  |
| 60  | REC   | 50.0            | 1.7      | 150.0               | 200.0  | 150.0                 | 200.0  |
| 61  | REC   | 25.0            | 0.8      | 150.0               | 200.0  | 150.0                 | 200.0  |
| 62  | REC   | 25.0            | 0.8      | 150.0               | 200.0  | 150.0                 | 200.0  |
| 63  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 64  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 65  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 66  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 67  | REC   | 72.8            | 3.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 68  | REC   | 72.8            | 3.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 69  | REC   | 50.9            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 70  | REC   | 50.9            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 71  | REC   | 50.9            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 72  | REC   | 50.9            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 73  | RND   | 50.9            | 4.1      | -----               | 125.0  | -----                 | 125.0  |
| 74  | RND   | 21.9            | 2.8      | -----               | 100.0  | -----                 | 100.0  |
| 75  | REC   | 26.4            | 1.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 76  | REC   | 26.4            | 1.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 77  | RND   | 26.4            | 3.4      | -----               | 100.0  | -----                 | 100.0  |
| 78  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 79  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 80  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 81  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 82  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 83  | REC   | 54.3            | 2.4      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 84  | REC   | 27.1            | 1.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 85  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 86  | RND   | 27.1            | 3.5      | -----               | 100.0  | -----                 | 100.0  |
| 87  | RND   | 27.1            | 3.5      | -----               | 100.0  | -----                 | 100.0  |
| 88  | REC   | 54.3            | 2.4      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 89  | REC   | 27.1            | 1.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 90  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 91  | RND   | 27.1            | 3.5      | -----               | 100.0  | -----                 | 100.0  |
| 92  | RND   | 27.1            | 3.5      | -----               | 100.0  | -----                 | 100.0  |
| 93  | REC   | 41.1            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 94  | RND   | 41.1            | 5.2      | -----               | 100.0  | -----                 | 100.0  |
| 95  | REC   | 80.7            | 3.6      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 96  | REC   | 54.3            | 2.4      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 97  | REC   | 27.1            | 1.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 98  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## SIZE DATA

System name : 0101R

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 133. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity | Metal |        | Airflow |        |
|-----|-------|-----------------|----------|-------|--------|---------|--------|
|     |       |                 |          | Width | Height | Width   | Height |
|     |       | L/s             | m/s      | mm    | mm     | mm      | mm     |
| 99  | RND   | 27.1            | 3.5      | ----- | 100.0  | -----   | 100.0  |
| 100 | RND   | 27.1            | 3.5      | ----- | 100.0  | -----   | 100.0  |
| 101 | RND   | 26.4            | 3.4      | ----- | 100.0  | -----   | 100.0  |
| 102 | REC   | 379.1           | 4.7      | 400.0 | 200.0  | 400.0   | 200.0  |
| 103 | REC   | 162.1           | 4.1      | 200.0 | 200.0  | 200.0   | 200.0  |
| 104 | REC   | 134.9           | 4.5      | 150.0 | 200.0  | 150.0   | 200.0  |
| 105 | REC   | 80.7            | 2.7      | 150.0 | 200.0  | 150.0   | 200.0  |
| 106 | REC   | 53.5            | 2.4      | 150.0 | 150.0  | 150.0   | 150.0  |
| 107 | REC   | 53.5            | 2.4      | 150.0 | 150.0  | 150.0   | 150.0  |
| 108 | REC   | 27.1            | 1.2      | 150.0 | 150.0  | 150.0   | 150.0  |
| 109 | RND   | 27.1            | 3.5      | ----- | 100.0  | -----   | 100.0  |
| 110 | RND   | 26.4            | 3.4      | ----- | 100.0  | -----   | 100.0  |
| 111 | REC   | 27.1            | 0.9      | 150.0 | 200.0  | 150.0   | 200.0  |
| 112 | RND   | 27.1            | 3.5      | ----- | 100.0  | -----   | 100.0  |
| 113 | REC   | 27.1            | 0.9      | 150.0 | 200.0  | 150.0   | 200.0  |
| 114 | RND   | 27.1            | 3.5      | ----- | 100.0  | -----   | 100.0  |
| 115 | REC   | 27.1            | 0.9      | 150.0 | 200.0  | 150.0   | 200.0  |
| 116 | RND   | 27.1            | 3.5      | ----- | 100.0  | -----   | 100.0  |
| 117 | RND   | 27.1            | 3.5      | ----- | 100.0  | -----   | 100.0  |
| 118 | REC   | 217.0           | 4.1      | 350.0 | 150.0  | 350.0   | 150.0  |
| 119 | REC   | 162.8           | 4.3      | 250.0 | 150.0  | 250.0   | 150.0  |
| 120 | REC   | 108.5           | 4.8      | 150.0 | 150.0  | 150.0   | 150.0  |
| 121 | REC   | 108.5           | 4.8      | 150.0 | 150.0  | 150.0   | 150.0  |
| 122 | RND   | 108.5           | 4.3      | ----- | 180.0  | -----   | 180.0  |
| 123 | REC   | 54.3            | 2.4      | 150.0 | 150.0  | 150.0   | 150.0  |
| 124 | REC   | 27.1            | 1.2      | 150.0 | 150.0  | 150.0   | 150.0  |
| 125 | REC   | 0.0             | 0.0      | 150.0 | 150.0  | 150.0   | 150.0  |
| 126 | RND   | 27.1            | 3.5      | ----- | 100.0  | -----   | 100.0  |
| 127 | RND   | 27.1            | 3.5      | ----- | 100.0  | -----   | 100.0  |
| 128 | REC   | 54.3            | 2.4      | 150.0 | 150.0  | 150.0   | 150.0  |
| 129 | REC   | 27.1            | 1.2      | 150.0 | 150.0  | 150.0   | 150.0  |
| 130 | RND   | 27.1            | 3.5      | ----- | 100.0  | -----   | 100.0  |
| 131 | REC   | 27.1            | 1.2      | 150.0 | 150.0  | 150.0   | 150.0  |
| 132 | REC   | 27.1            | 1.2      | 150.0 | 150.0  | 150.0   | 150.0  |
| 133 | RND   | 27.1            | 3.5      | ----- | 100.0  | -----   | 100.0  |

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## PRESSURE LOSS DATA

System name : 0101R

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 133.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0007        |
| 2   | 0.0060      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0074        |
| 3   | 0.0032      | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0000          | 0.0059        |
| 4   | 0.0022      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0045        |
| 5   | 0.0011      | 0.0000                    | 0.0000                | 0.0035       | 0.0000        | 0.0000          | 0.0046        |
| 6   | 0.0016      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0030        |
| 7   | 0.0016      | 0.0000                    | 0.0000                | 0.0039       | 0.0000        | 0.0000          | 0.0055        |
| 8   | 0.0054      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0595          | 0.0663        |
| 9   | 0.0049      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0074        |
| 10  | 0.0005      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0006          | 0.0018        |
| 11  | 0.0004      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0186          | 0.0191        |
| 12  | 0.0042      | 0.0140                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0191        |
| 13  | 0.0005      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0009        |
| 14  | 0.0016      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0005          | 0.0022        |
| 15  | 0.0025      | 0.0140                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0177        |
| 16  | 0.0017      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0018        |
| 17  | 0.0025      | 0.0140                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0181        |
| 18  | 0.0030      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0028          | 0.0074        |
| 19  | 0.0016      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0018        |
| 20  | 0.0004      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0187          | 0.0191        |
| 21  | 0.0042      | 0.0140                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0191        |
| 22  | 0.0024      | 0.0140                    | 0.0000                | 0.0009       | 0.0000        | 0.0036          | 0.0209        |
| 23  | 0.0017      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0024        |
| 24  | 0.0064      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0074        |
| 25  | 0.0026      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0040        |
| 26  | 0.0043      | 0.0000                    | 0.0000                | 0.0113       | 0.0000        | 0.0000          | 0.0156        |
| 27  | 0.0023      | 0.0000                    | 0.0000                | 0.0043       | 0.0000        | 0.0000          | 0.0066        |
| 28  | 0.0031      | 0.0000                    | 0.0000                | 0.0049       | 0.0000        | 0.0000          | 0.0080        |
| 29  | 0.0047      | 0.0000                    | 0.0000                | 0.0047       | 0.0000        | 0.0000          | 0.0094        |
| 30  | 0.0047      | 0.0000                    | 0.0000                | 0.0042       | 0.0000        | 0.0000          | 0.0089        |
| 31  | 0.0023      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0034        |
| 32  | 0.0023      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0038        |
| 33  | 0.0028      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0034        |
| 34  | 0.0016      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0019        |
| 35  | 0.0004      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0194          | 0.0198        |
| 36  | 0.0042      | 0.0140                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0198        |
| 37  | 0.0024      | 0.0140                    | 0.0000                | 0.0018       | 0.0000        | 0.0035          | 0.0217        |
| 38  | 0.0011      | 0.0140                    | 0.0000                | 0.0018       | 0.0000        | 0.0082          | 0.0251        |
| 39  | 0.0104      | 0.0140                    | 0.0000                | 0.0004       | 0.0000        | 0.0165          | 0.0412        |
| 40  | 0.0022      | 0.0140                    | 0.0000                | 0.0004       | 0.0000        | 0.0341          | 0.0506        |
| 41  | -0.0006     | 0.0140                    | 0.0000                | 0.0004       | 0.0000        | 0.0448          | 0.0586        |
| 42  | 0.0034      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0056          | 0.0097        |
| 43  | 0.0041      | 0.0000                    | 0.0000                | 0.0093       | 0.0000        | 0.0000          | 0.0134        |
| 44  | 0.0058      | 0.0000                    | 0.0000                | 0.0043       | 0.0000        | 0.0000          | 0.0101        |
| 45  | 0.0023      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0033        |
| 46  | 0.0023      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0038        |
| 47  | 0.0028      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0034        |
| 48  | 0.0016      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0019        |
| 49  | 0.0004      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0192          | 0.0196        |
| 50  | 0.0042      | 0.0140                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0196        |



## PRESSURE LOSS DATA

System name : 0101R

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 133. (Continued)

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 51  | 0.0024      | 0.0140                    | 0.0000                | 0.0016       | 0.0000        | 0.0035          | 0.0215        |
| 52  | 0.0011      | 0.0140                    | 0.0000                | 0.0016       | 0.0000        | 0.0082          | 0.0249        |
| 53  | 0.0128      | 0.0140                    | 0.0000                | 0.0004       | 0.0000        | 0.0149          | 0.0421        |
| 54  | 0.0019      | 0.0140                    | 0.0000                | 0.0004       | 0.0000        | 0.0392          | 0.0555        |
| 55  | -0.0125     | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0496          | 0.0403        |
| 56  | 0.0043      | 0.0000                    | 0.0000                | 0.0029       | 0.0000        | 0.0000          | 0.0072        |
| 57  | 0.0035      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0064        |
| 58  | 0.0028      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0049        |
| 59  | 0.0000      | 0.0140                    | 0.0000                | 0.0067       | 0.0000        | 0.0013          | 0.0219        |
| 60  | 0.0000      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0003        |
| 61  | 0.0009      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0010        |
| 62  | 0.0002      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0003        |
| 63  | 0.0031      | 0.0140                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0204        |
| 64  | 0.0013      | 0.0140                    | 0.0000                | 0.0020       | 0.0000        | 0.0044          | 0.0217        |
| 65  | -0.0056     | 0.0140                    | 0.0000                | 0.0018       | 0.0000        | 0.0166          | 0.0268        |
| 66  | -0.0087     | 0.0140                    | 0.0000                | 0.0024       | 0.0000        | 0.0255          | 0.0332        |
| 67  | -0.0172     | 0.0000                    | 0.0000                | 0.0043       | 0.0000        | 0.0617          | 0.0488        |
| 68  | 0.0021      | 0.0000                    | 0.0000                | 0.0035       | 0.0000        | 0.0000          | 0.0056        |
| 69  | 0.0024      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0045        |
| 70  | 0.0007      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0012        |
| 71  | 0.0007      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0020        |
| 72  | 0.0011      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0029        |
| 73  | 0.0032      | 0.0140                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0197        |
| 74  | 0.0008      | 0.0140                    | 0.0000                | 0.0010       | 0.0000        | 0.0145          | 0.0303        |
| 75  | -0.0130     | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0870          | 0.0741        |
| 76  | 0.0003      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0004        |
| 77  | 0.0027      | 0.0140                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0176        |
| 78  | -0.0087     | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0802          | 0.0719        |
| 79  | 0.0016      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0000          | 0.0016        |
| 80  | 0.0025      | 0.0140                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0186        |
| 81  | 0.0017      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0003          | 0.0021        |
| 82  | 0.0025      | 0.0140                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0181        |
| 83  | -0.0174     | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0928          | 0.0778        |
| 84  | 0.0019      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0021        |
| 85  | 0.0005      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0197          | 0.0201        |
| 86  | 0.0050      | 0.0140                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0201        |
| 87  | 0.0028      | 0.0140                    | 0.0000                | 0.0011       | 0.0000        | 0.0043          | 0.0222        |
| 88  | -0.0166     | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0947          | 0.0805        |
| 89  | 0.0019      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0024        |
| 90  | 0.0005      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0197          | 0.0201        |
| 91  | 0.0050      | 0.0140                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0201        |
| 92  | 0.0028      | 0.0140                    | 0.0000                | 0.0011       | 0.0000        | 0.0046          | 0.0225        |
| 93  | -0.0169     | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0986          | 0.0827        |
| 94  | 0.0067      | 0.0140                    | 0.0000                | 0.0043       | 0.0000        | 0.0000          | 0.0249        |
| 95  | -0.0166     | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.1004          | 0.0845        |
| 96  | 0.0032      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0053        |
| 97  | 0.0019      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0024        |
| 98  | 0.0005      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0196          | 0.0201        |
| 99  | 0.0050      | 0.0140                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0201        |
| 100 | 0.0028      | 0.0140                    | 0.0000                | 0.0011       | 0.0000        | 0.0046          | 0.0224        |



## PRESSURE LOSS DATA

System name : 0101R

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 133. (Continued)

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 101 | 0.0012      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0119          | 0.0277        |
| 102 | 0.0056      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0574          | 0.0643        |
| 103 | 0.0032      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0032          | 0.0085        |
| 104 | 0.0024      | 0.0000                    | 0.0000                | 0.0047       | 0.0000        | 0.0000          | 0.0070        |
| 105 | 0.0106      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0112        |
| 106 | 0.0018      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0032        |
| 107 | 0.0012      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0015        |
| 108 | 0.0018      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0025        |
| 109 | 0.0029      | 0.0140                    | 0.0000                | 0.0029       | 0.0000        | 0.0000          | 0.0198        |
| 110 | 0.0026      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0052          | 0.0223        |
| 111 | -0.0004     | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0065          | 0.0065        |
| 112 | 0.0037      | 0.0140                    | 0.0000                | 0.0029       | 0.0000        | 0.0000          | 0.0206        |
| 113 | 0.0049      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0124          | 0.0177        |
| 114 | 0.0037      | 0.0140                    | 0.0000                | 0.0029       | 0.0000        | 0.0000          | 0.0206        |
| 115 | 0.0049      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0143          | 0.0192        |
| 116 | 0.0037      | 0.0140                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0190        |
| 117 | -0.0058     | 0.0140                    | 0.0000                | 0.0018       | 0.0000        | 0.0353          | 0.0453        |
| 118 | 0.0025      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0037        |
| 119 | 0.0034      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0058        |
| 120 | 0.0047      | 0.0000                    | 0.0000                | 0.0155       | 0.0000        | 0.0000          | 0.0202        |
| 121 | 0.0045      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0077        |
| 122 | 0.0000      | 0.0140                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0163        |
| 123 | -0.0012     | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0212          | 0.0220        |
| 124 | 0.0019      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0021        |
| 125 | 0.0005      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0197          | 0.0202        |
| 126 | 0.0050      | 0.0140                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0202        |
| 127 | 0.0028      | 0.0140                    | 0.0000                | 0.0012       | 0.0000        | 0.0043          | 0.0222        |
| 128 | -0.0051     | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0317          | 0.0289        |
| 129 | 0.0019      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0006          | 0.0026        |
| 130 | 0.0029      | 0.0140                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0185        |
| 131 | 0.0020      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0021        |
| 132 | 0.0004      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0005        |
| 133 | 0.0029      | 0.0140                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0185        |

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## C-VALUE DATA

System name : 0101R

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 133.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0286 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2499  | 0.0000            | 0.0000        | 0.0572 | 0.0000 | 0.0000  |
| 3   | 2   | 0.1340  | 0.0000            | 0.0000        | 0.1161 | 0.0000 | 0.0000  |
| 4   | 3   | 0.0959  | 0.0000            | 0.0000        | 0.1153 | 0.0000 | 0.0000  |
| 5   | 4   | 0.0520  | 0.0000            | 0.0000        | 0.1533 | 0.0000 | 0.0000  |
| 6   | 5   | 0.0709  | 0.0000            | 0.0000        | 0.0667 | 0.0000 | 0.0000  |
| 7   | 6   | 0.0742  | 0.0000            | 0.0000        | 0.1651 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2300  | 0.0000            | 0.0000        | 0.1237 | 0.0000 | 5.5826  |
| 9   | 8   | 0.4600  | 0.0000            | 0.0000        | 0.3661 | 0.0000 | 0.0000  |
| 10  | 9   | 0.0700  | 0.0000            | 0.0000        | 0.9145 | 0.0000 | 0.8448  |
| 11  | 10  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 12  | 10  | 5.6000  | 2.2493            | 0.0000        | 0.1316 | 0.0000 | 0.0000  |
| 13  | 9   | 0.0700  | 0.0000            | 0.0000        | 0.1538 | 0.0000 | 0.0000  |
| 14  | 13  | 0.5300  | 0.0000            | 0.0000        | 0.1392 | 0.0000 | 0.6230  |
| 15  | 14  | 0.3951  | 2.2493            | 0.0000        | 0.2071 | 0.0000 | 0.0000  |
| 16  | 13  | 0.5500  | 0.0000            | 0.0000        | 0.1803 | 0.0000 | 0.0000  |
| 17  | 16  | 0.3951  | 2.2493            | 0.0000        | 0.2682 | 0.0000 | 0.0000  |
| 18  | 8   | 0.2800  | 0.0000            | 0.0000        | 0.5227 | 0.0000 | 0.9352  |
| 19  | 18  | 0.5300  | 0.0000            | 0.0000        | 0.1908 | 0.0000 | 0.0000  |
| 20  | 19  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 21  | 19  | 5.6000  | 2.2493            | 0.0000        | 0.1405 | 0.0000 | 0.0000  |
| 22  | 18  | 0.7800  | 2.2493            | 0.0000        | 0.1405 | 0.0000 | 0.5837  |
| 23  | 7   | 0.0700  | 0.0000            | 0.0000        | 0.0426 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3465  | 0.0000            | 0.0000        | 0.0465 | 0.0000 | 0.0000  |
| 25  | 24  | 0.1274  | 0.0000            | 0.0000        | 0.0784 | 0.0000 | 0.0000  |
| 26  | 25  | 0.2446  | 0.0000            | 0.0000        | 0.6976 | 0.0000 | 0.0000  |
| 27  | 26  | 0.1411  | 0.0000            | 0.0000        | 0.4781 | 0.0000 | 0.0000  |
| 28  | 27  | 0.3480  | 0.0000            | 0.0000        | 0.4553 | 0.0000 | 0.0000  |
| 29  | 28  | 0.4373  | 0.0000            | 0.0000        | 0.5684 | 0.0000 | 0.0000  |
| 30  | 29  | 0.5665  | 0.0000            | 0.0000        | 0.6204 | 0.0000 | 0.0000  |
| 31  | 30  | 0.3319  | 0.0000            | 0.0000        | 0.1631 | 0.0000 | 0.0000  |
| 32  | 31  | 0.3319  | 0.0000            | 0.0000        | 0.2248 | 0.0000 | 0.0000  |
| 33  | 32  | 0.4067  | 0.0000            | 0.0000        | 0.2141 | 0.0000 | 0.0000  |
| 34  | 33  | 0.5300  | 0.0000            | 0.0000        | 0.3842 | 0.0000 | 0.0000  |
| 35  | 34  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 36  | 34  | 5.6000  | 2.2493            | 0.0000        | 0.2485 | 0.0000 | 0.0000  |
| 37  | 33  | 0.7800  | 2.2493            | 0.0000        | 0.2937 | 0.0000 | 0.5621  |
| 38  | 32  | 0.1633  | 2.2493            | 0.0000        | 0.2937 | 0.0000 | 1.3135  |
| 39  | 29  | 1.2549  | 1.9100            | 0.0000        | 0.0497 | 0.0000 | 2.2470  |
| 40  | 28  | 0.2016  | 1.9100            | 0.0000        | 0.0497 | 0.0000 | 4.6493  |
| 41  | 27  | -0.0677 | 1.9100            | 0.0000        | 0.0497 | 0.0000 | 6.1146  |
| 42  | 26  | 0.2122  | 0.0000            | 0.0000        | 0.0662 | 0.0000 | 0.6044  |
| 43  | 42  | 0.4373  | 0.0000            | 0.0000        | 0.9082 | 0.0000 | 0.0000  |
| 44  | 43  | 0.5665  | 0.0000            | 0.0000        | 0.6292 | 0.0000 | 0.0000  |
| 45  | 44  | 0.3319  | 0.0000            | 0.0000        | 0.1475 | 0.0000 | 0.0000  |
| 46  | 45  | 0.3319  | 0.0000            | 0.0000        | 0.2291 | 0.0000 | 0.0000  |
| 47  | 46  | 0.4067  | 0.0000            | 0.0000        | 0.2141 | 0.0000 | 0.0000  |
| 48  | 47  | 0.5300  | 0.0000            | 0.0000        | 0.3658 | 0.0000 | 0.0000  |
| 49  | 48  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 50  | 48  | 5.6000  | 2.2493            | 0.0000        | 0.2191 | 0.0000 | 0.0000  |
| 51  | 47  | 0.7800  | 2.2493            | 0.0000        | 0.2643 | 0.0000 | 0.5599  |
| 52  | 46  | 0.1633  | 2.2493            | 0.0000        | 0.2643 | 0.0000 | 1.3113  |
| 53  | 43  | 1.2549  | 1.9100            | 0.0000        | 0.0497 | 0.0000 | 2.0354  |



## C-VALUE DATA

System name : 0101R

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 133. (Continued)

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance  |
|-----|-----|---------|-------------------|---------------|--------|--------|----------|
| 54  | 42  | 0.2016  | 1.9100            | 0.0000        | 0.0497 | 0.0000 | 5.3500   |
| 55  | 25  | -0.7147 | 0.0000            | 0.0000        | 0.3864 | 0.0000 | 5.8304   |
| 56  | 55  | 0.2838  | 0.0000            | 0.0000        | 0.1905 | 0.0000 | 0.0000   |
| 57  | 56  | 0.2348  | 0.0000            | 0.0000        | 0.2692 | 0.0000 | 0.0000   |
| 58  | 57  | 0.2721  | 0.0000            | 0.0000        | 0.3090 | 0.0000 | 0.0000   |
| 59  | 58  | 0.0000  | 0.5896            | 0.0000        | 0.2803 | 0.0000 | 0.0531   |
| 60  | 58  | 0.0000  | 0.0000            | 0.0000        | 0.1510 | 0.0000 | 0.0000   |
| 61  | 60  | 0.5300  | 0.0000            | 0.0000        | 0.1752 | 0.0000 | 0.0000   |
| 62  | 61  | 0.3898  | 0.0000            | 0.0000        | 0.3157 | 0.0000 | 0.0000   |
| 63  | 62  | 0.5002  | 2.2493            | 0.0000        | 0.5247 | 0.0000 | 0.0000   |
| 64  | 60  | 0.7800  | 2.2493            | 0.0000        | 0.3148 | 0.0000 | 0.7019   |
| 65  | 57  | -0.5372 | 2.2493            | 0.0000        | 0.2931 | 0.0000 | 2.6705   |
| 66  | 56  | -0.5756 | 2.2493            | 0.0000        | 0.3858 | 0.0000 | 4.0957   |
| 67  | 24  | -0.8300 | 0.0000            | 0.0000        | 0.6635 | 0.0000 | 9.6023   |
| 68  | 67  | 0.3337  | 0.0000            | 0.0000        | 0.5405 | 0.0000 | 0.0000   |
| 69  | 68  | 0.3809  | 0.0000            | 0.0000        | 0.6428 | 0.0000 | 0.0000   |
| 70  | 69  | 0.2142  | 0.0000            | 0.0000        | 0.1743 | 0.0000 | 0.0000   |
| 71  | 70  | 0.2142  | 0.0000            | 0.0000        | 0.4184 | 0.0000 | 0.0000   |
| 72  | 71  | 0.3569  | 0.0000            | 0.0000        | 0.5717 | 0.0000 | 0.0000   |
| 73  | 72  | 0.3000  | 1.3263            | 0.0000        | 0.2382 | 0.0000 | 0.0000   |
| 74  | 68  | 0.1311  | 2.9258            | 0.0000        | 0.2040 | 0.0000 | 3.0202   |
| 75  | 23  | -0.6987 | 0.0000            | 0.0000        | 0.1148 | 0.0000 | 102.8416 |
| 76  | 75  | 0.4046  | 0.0000            | 0.0000        | 0.0864 | 0.0000 | 0.0000   |
| 77  | 76  | 0.3951  | 2.0171            | 0.0000        | 0.1288 | 0.0000 | 0.0000   |
| 78  | 23  | -0.4700 | 0.0000            | 0.0000        | 0.1538 | 0.0000 | 26.4310  |
| 79  | 78  | 0.5300  | 0.0000            | 0.0000        | 0.0498 | 0.0000 | 0.0000   |
| 80  | 79  | 0.3951  | 2.2493            | 0.0000        | 0.3399 | 0.0000 | 0.0000   |
| 81  | 78  | 0.5500  | 0.0000            | 0.0000        | 0.1803 | 0.0000 | 0.3782   |
| 82  | 81  | 0.3951  | 2.2493            | 0.0000        | 0.2682 | 0.0000 | 0.0000   |
| 83  | 6   | -0.8300 | 0.0000            | 0.0000        | 0.6756 | 0.0000 | 25.9880  |
| 84  | 83  | 0.5300  | 0.0000            | 0.0000        | 0.1934 | 0.0000 | 0.0000   |
| 85  | 84  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000   |
| 86  | 84  | 5.6000  | 1.9100            | 0.0000        | 0.1560 | 0.0000 | 0.0000   |
| 87  | 83  | 0.7800  | 1.9100            | 0.0000        | 0.1560 | 0.0000 | 0.5841   |
| 88  | 5   | -0.7200 | 0.0000            | 0.0000        | 0.6756 | 0.0000 | 26.5062  |
| 89  | 88  | 0.5300  | 0.0000            | 0.0000        | 0.5362 | 0.0000 | 0.0000   |
| 90  | 89  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000   |
| 91  | 89  | 5.6000  | 1.9100            | 0.0000        | 0.1560 | 0.0000 | 0.0000   |
| 92  | 88  | 0.7800  | 1.9100            | 0.0000        | 0.1560 | 0.0000 | 0.6258   |
| 93  | 4   | -0.8300 | 0.0000            | 0.0000        | 0.4993 | 0.0000 | 47.9910  |
| 94  | 93  | 0.3951  | 0.8306            | 0.0000        | 0.2527 | 0.0000 | 0.0000   |
| 95  | 3   | -0.7200 | 0.0000            | 0.0000        | 0.0845 | 0.0000 | 12.7146  |
| 96  | 95  | 0.4018  | 0.0000            | 0.0000        | 0.5844 | 0.0000 | 0.0000   |
| 97  | 96  | 0.5300  | 0.0000            | 0.0000        | 0.5362 | 0.0000 | 0.0000   |
| 98  | 97  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000   |
| 99  | 97  | 5.6000  | 1.9100            | 0.0000        | 0.1451 | 0.0000 | 0.0000   |
| 100 | 96  | 0.7800  | 1.9100            | 0.0000        | 0.1451 | 0.0000 | 0.6258   |
| 101 | 95  | 0.1573  | 2.0171            | 0.0000        | 0.0789 | 0.0000 | 1.7156   |
| 102 | 2   | 0.2300  | 0.0000            | 0.0000        | 0.0995 | 0.0000 | 4.1584   |
| 103 | 102 | 0.2300  | 0.0000            | 0.0000        | 0.2122 | 0.0000 | 0.3164   |
| 104 | 103 | 0.2342  | 0.0000            | 0.0000        | 0.3767 | 0.0000 | 0.0000   |
| 105 | 104 | 0.8524  | 0.0000            | 0.0000        | 0.1368 | 0.0000 | 0.0000   |
| 106 | 105 | 0.4091  | 0.0000            | 0.0000        | 0.4104 | 0.0000 | 0.0000   |



## C-VALUE DATA

System name : 0101R

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 133. (Continued)

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-----
Sec    Frm      Fit      Equip      Equip      Fric      Other      Balance
      Terminal  Thru
-----
107    106      0.3533    0.0000    0.0000    0.0861    0.0000    0.0000
108    107      0.5252    0.0000    0.0000    0.7060    0.0000    0.0000
109    108      0.3951    1.9100    0.0000    0.4006    0.0000    0.0000
110    107      0.7425    2.0171    0.0000    0.0682    0.0000    0.7542
111    105     -0.0892    0.0000    0.0000    0.7206    0.0000    12.9229
112    111      0.5002    1.9100    0.0000    0.4006    0.0000    0.0000
113    104      0.3951    0.0000    0.0000    0.7206    0.0000    24.6536
114    113      0.5002    1.9100    0.0000    0.4006    0.0000    0.0000
115    104      0.3951    0.0000    0.0000    0.1101    0.0000    28.4291
116    115      0.5002    1.9100    0.0000    0.1837    0.0000    0.0000
117    103     -0.5761    1.9100    0.0000    0.2523    0.0000    4.8103
118    102      0.1800    0.0000    0.0000    0.1200    0.0000    0.0000
119    118      0.3250    0.0000    0.0000    0.2079    0.0000    0.0000
120    119      0.4067    0.0000    0.0000    1.0827    0.0000    0.0000
121    120      0.3127    0.0000    0.0000    0.2288    0.0000    0.0000
122    121      0.0000    1.2531    0.0000    0.2080    0.0000    0.0000
123    119     -0.1067    0.0000    0.0000    0.5743    0.0000    5.9303
124    123      0.5300    0.0000    0.0000    0.1934    0.0000    0.0000
125    124      0.0000    0.0000    0.0000    0.0000    0.0000    0.0000
126    124      5.6000    1.9100    0.0000    0.1596    0.0000    0.0000
127    123      0.7800    1.9100    0.0000    0.1596    0.0000    0.5841
128    118     -0.4900    0.0000    0.0000    0.6725    0.0000    8.8643
129    128      0.5300    0.0000    0.0000    0.1471    0.0000    0.6763
130    129      0.3951    1.9100    0.0000    0.2194    0.0000    0.0000
131    128      0.5500    0.0000    0.0000    0.1934    0.0000    0.0000
132    131      0.4029    0.0000    0.0000    0.1471    0.0000    0.0000
133    132      0.3951    1.9100    0.0000    0.2194    0.0000    0.0000
*****

```



## FAN DATA PRINTOUT

System name : 0101R 14-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| -----   |             |             |
| Fan Airflow Rate .....                        | :           | 1725.0 L/s  |
| Fan Static Pressure .....                     | :           | 0.0648 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1262 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1262 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1262 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1876 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| -----                       |   |             |
| Return System Loss .....    | : | -0.1262 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1262 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| -----                         |   |            |
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| -----                     |   |                |
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| -----                     |   |                |

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## PRESSURE LOSS DATA II

System name : 0101R

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 133.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1262           | -0.1504            | 6.3      | 0.0242               | 24.6354 E+04       |
| 2   | -0.1255           | -0.1497            | 6.3      | 0.0242               | 24.6354 E+04       |
| 3   | -0.1181           | -0.1411            | 6.1      | 0.0230               | 21.4287 E+04       |
| 4   | -0.1122           | -0.1325            | 5.8      | 0.0203               | 20.1445 E+04       |
| 5   | -0.1076           | -0.1307            | 6.1      | 0.0230               | 20.4736 E+04       |
| 6   | -0.1031           | -0.1241            | 5.8      | 0.0210               | 19.5661 E+04       |
| 7   | -0.1000           | -0.1236            | 6.2      | 0.0236               | 19.6899 E+04       |
| 8   | -0.0350           | -0.0457            | 4.2      | 0.0107               | 5.3924 E+04        |
| 9   | -0.0283           | -0.0351            | 3.3      | 0.0068               | 3.7456 E+04        |
| 10  | -0.0202           | -0.0210            | 1.1      | 0.0008               | 1.2485 E+04        |
| 11  | -0.0004           | -0.0004            | 0.0      | 0.0000               | 0.0000 E+04        |
| 12  | -0.0191           | -0.0253            | 3.2      | 0.0062               | 2.1813 E+04        |
| 13  | -0.0209           | -0.0239            | 2.2      | 0.0030               | 2.4971 E+04        |
| 14  | -0.0195           | -0.0202            | 1.1      | 0.0008               | 1.2485 E+04        |
| 15  | -0.0177           | -0.0240            | 3.2      | 0.0062               | 2.1813 E+04        |
| 16  | -0.0199           | -0.0207            | 1.1      | 0.0008               | 1.2485 E+04        |
| 17  | -0.0181           | -0.0244            | 3.2      | 0.0062               | 2.1813 E+04        |
| 18  | -0.0254           | -0.0285            | 2.2      | 0.0030               | 2.4971 E+04        |
| 19  | -0.0209           | -0.0216            | 1.1      | 0.0008               | 1.2485 E+04        |
| 20  | -0.0004           | -0.0004            | 0.0      | 0.0000               | 0.0000 E+04        |
| 21  | -0.0191           | -0.0253            | 3.2      | 0.0062               | 2.1813 E+04        |
| 22  | -0.0172           | -0.0235            | 3.2      | 0.0062               | 2.1813 E+04        |
| 23  | -0.0946           | -0.1132            | 5.5      | 0.0186               | 17.4838 E+04       |
| 24  | -0.0921           | -0.1128            | 5.8      | 0.0207               | 17.2230 E+04       |
| 25  | -0.0847           | -0.1022            | 5.3      | 0.0175               | 15.8517 E+04       |
| 26  | -0.0807           | -0.0969            | 5.1      | 0.0162               | 14.0492 E+04       |
| 27  | -0.0651           | -0.0741            | 3.8      | 0.0089               | 9.2534 E+04        |
| 28  | -0.0586           | -0.0693            | 4.2      | 0.0107               | 8.1894 E+04        |
| 29  | -0.0506           | -0.0589            | 3.7      | 0.0083               | 6.1387 E+04        |
| 30  | -0.0412           | -0.0480            | 3.3      | 0.0068               | 3.7456 E+04        |
| 31  | -0.0323           | -0.0391            | 3.3      | 0.0068               | 3.7456 E+04        |
| 32  | -0.0289           | -0.0357            | 3.3      | 0.0068               | 3.7456 E+04        |
| 33  | -0.0251           | -0.0282            | 2.2      | 0.0030               | 2.4971 E+04        |
| 34  | -0.0217           | -0.0225            | 1.1      | 0.0008               | 1.2485 E+04        |
| 35  | -0.0004           | -0.0004            | 0.0      | 0.0000               | 0.0000 E+04        |
| 36  | -0.0198           | -0.0260            | 3.2      | 0.0062               | 2.1813 E+04        |
| 37  | -0.0182           | -0.0244            | 3.2      | 0.0062               | 2.1813 E+04        |
| 38  | -0.0169           | -0.0232            | 3.2      | 0.0062               | 2.1813 E+04        |
| 39  | -0.0247           | -0.0321            | 3.5      | 0.0073               | 4.7343 E+04        |
| 40  | -0.0165           | -0.0238            | 3.5      | 0.0073               | 4.7343 E+04        |
| 41  | -0.0138           | -0.0211            | 3.5      | 0.0073               | 4.7343 E+04        |
| 42  | -0.0595           | -0.0688            | 3.9      | 0.0093               | 7.9802 E+04        |
| 43  | -0.0555           | -0.0657            | 4.1      | 0.0102               | 6.3861 E+04        |
| 44  | -0.0421           | -0.0489            | 3.3      | 0.0068               | 3.7456 E+04        |
| 45  | -0.0320           | -0.0388            | 3.3      | 0.0068               | 3.7456 E+04        |
| 46  | -0.0288           | -0.0356            | 3.3      | 0.0068               | 3.7456 E+04        |
| 47  | -0.0249           | -0.0280            | 2.2      | 0.0030               | 2.4971 E+04        |
| 48  | -0.0215           | -0.0223            | 1.1      | 0.0008               | 1.2485 E+04        |
| 49  | -0.0004           | -0.0004            | 0.0      | 0.0000               | 0.0000 E+04        |
| 50  | -0.0196           | -0.0258            | 3.2      | 0.0062               | 2.1813 E+04        |
| 51  | -0.0180           | -0.0242            | 3.2      | 0.0062               | 2.1813 E+04        |



## PRESSURE LOSS DATA II

System name : 0101R

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 133. (Continued)

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 52  | -0.0168           | -0.0230            | 3.2      | 0.0062               | 2.1813 E+04        |
| 53  | -0.0272           | -0.0345            | 3.5      | 0.0073               | 4.7343 E+04        |
| 54  | -0.0162           | -0.0236            | 3.5      | 0.0073               | 4.7343 E+04        |
| 55  | -0.0311           | -0.0396            | 3.7      | 0.0085               | 5.5746 E+04        |
| 56  | -0.0404           | -0.0555            | 5.0      | 0.0151               | 6.4204 E+04        |
| 57  | -0.0332           | -0.0437            | 4.1      | 0.0105               | 5.3419 E+04        |
| 58  | -0.0268           | -0.0335            | 3.3      | 0.0067               | 4.2635 E+04        |
| 59  | -0.0207           | -0.0444            | 6.2      | 0.0237               | 4.2605 E+04        |
| 60  | -0.0219           | -0.0236            | 1.7      | 0.0017               | 2.1570 E+04        |
| 61  | -0.0217           | -0.0221            | 0.8      | 0.0004               | 1.0785 E+04        |
| 62  | -0.0207           | -0.0211            | 0.8      | 0.0004               | 1.0785 E+04        |
| 63  | -0.0204           | -0.0266            | 3.2      | 0.0062               | 2.1813 E+04        |
| 64  | -0.0173           | -0.0235            | 3.2      | 0.0062               | 2.1813 E+04        |
| 65  | -0.0102           | -0.0164            | 3.2      | 0.0062               | 2.1813 E+04        |
| 66  | -0.0077           | -0.0139            | 3.2      | 0.0062               | 2.1813 E+04        |
| 67  | -0.0230           | -0.0294            | 3.2      | 0.0064               | 3.6352 E+04        |
| 68  | -0.0359           | -0.0423            | 3.2      | 0.0064               | 3.6352 E+04        |
| 69  | -0.0303           | -0.0334            | 2.3      | 0.0031               | 2.5405 E+04        |
| 70  | -0.0258           | -0.0289            | 2.3      | 0.0031               | 2.5405 E+04        |
| 71  | -0.0246           | -0.0277            | 2.3      | 0.0031               | 2.5405 E+04        |
| 72  | -0.0226           | -0.0257            | 2.3      | 0.0031               | 2.5405 E+04        |
| 73  | -0.0197           | -0.0302            | 4.1      | 0.0106               | 3.5508 E+04        |
| 74  | -0.0158           | -0.0206            | 2.8      | 0.0048               | 1.9126 E+04        |
| 75  | -0.0051           | -0.0060            | 1.2      | 0.0008               | 1.3185 E+04        |
| 76  | -0.0181           | -0.0189            | 1.2      | 0.0008               | 1.3185 E+04        |
| 77  | -0.0176           | -0.0246            | 3.4      | 0.0069               | 2.3035 E+04        |
| 78  | -0.0119           | -0.0150            | 2.2      | 0.0030               | 2.4971 E+04        |
| 79  | -0.0202           | -0.0210            | 1.1      | 0.0008               | 1.2485 E+04        |
| 80  | -0.0186           | -0.0248            | 3.2      | 0.0062               | 2.1813 E+04        |
| 81  | -0.0199           | -0.0207            | 1.1      | 0.0008               | 1.2485 E+04        |
| 82  | -0.0181           | -0.0244            | 3.2      | 0.0062               | 2.1813 E+04        |
| 83  | -0.0072           | -0.0108            | 2.4      | 0.0036               | 2.7098 E+04        |
| 84  | -0.0222           | -0.0231            | 1.2      | 0.0009               | 1.3549 E+04        |
| 85  | -0.0005           | -0.0005            | 0.0      | 0.0000               | 0.0000 E+04        |
| 86  | -0.0201           | -0.0275            | 3.5      | 0.0073               | 2.3672 E+04        |
| 87  | -0.0179           | -0.0253            | 3.5      | 0.0073               | 2.3672 E+04        |
| 88  | -0.0084           | -0.0119            | 2.4      | 0.0036               | 2.7098 E+04        |
| 89  | -0.0225           | -0.0234            | 1.2      | 0.0009               | 1.3549 E+04        |
| 90  | -0.0005           | -0.0005            | 0.0      | 0.0000               | 0.0000 E+04        |
| 91  | -0.0201           | -0.0275            | 3.5      | 0.0073               | 2.3672 E+04        |
| 92  | -0.0179           | -0.0253            | 3.5      | 0.0073               | 2.3672 E+04        |
| 93  | -0.0091           | -0.0111            | 1.8      | 0.0021               | 2.0546 E+04        |
| 94  | -0.0249           | -0.0418            | 5.2      | 0.0169               | 3.5896 E+04        |
| 95  | -0.0118           | -0.0197            | 3.6      | 0.0079               | 4.0283 E+04        |
| 96  | -0.0277           | -0.0313            | 2.4      | 0.0036               | 2.7098 E+04        |
| 97  | -0.0224           | -0.0233            | 1.2      | 0.0009               | 1.3549 E+04        |
| 98  | -0.0005           | -0.0005            | 0.0      | 0.0000               | 0.0000 E+04        |
| 99  | -0.0201           | -0.0274            | 3.5      | 0.0073               | 2.3672 E+04        |
| 100 | -0.0178           | -0.0252            | 3.5      | 0.0073               | 2.3672 E+04        |
| 101 | -0.0158           | -0.0227            | 3.4      | 0.0069               | 2.3035 E+04        |
| 102 | -0.0607           | -0.0745            | 4.7      | 0.0138               | 9.8936 E+04        |



## PRESSURE LOSS DATA II

System name : 0101R

14-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 133. (Continued)

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 103 | -0.0506           | -0.0607            | 4.1      | 0.0101               | 6.0698 E+04        |
| 104 | -0.0453           | -0.0577            | 4.5      | 0.0124               | 5.8203 E+04        |
| 105 | -0.0383           | -0.0427            | 2.7      | 0.0044               | 3.4796 E+04        |
| 106 | -0.0271           | -0.0305            | 2.4      | 0.0035               | 2.6734 E+04        |
| 107 | -0.0238           | -0.0273            | 2.4      | 0.0035               | 2.6734 E+04        |
| 108 | -0.0223           | -0.0232            | 1.2      | 0.0009               | 1.3549 E+04        |
| 109 | -0.0198           | -0.0272            | 3.5      | 0.0073               | 2.3672 E+04        |
| 110 | -0.0171           | -0.0240            | 3.4      | 0.0069               | 2.3035 E+04        |
| 111 | -0.0206           | -0.0211            | 0.9      | 0.0005               | 1.1704 E+04        |
| 112 | -0.0206           | -0.0279            | 3.5      | 0.0073               | 2.3672 E+04        |
| 113 | -0.0259           | -0.0264            | 0.9      | 0.0005               | 1.1704 E+04        |
| 114 | -0.0206           | -0.0279            | 3.5      | 0.0073               | 2.3672 E+04        |
| 115 | -0.0240           | -0.0245            | 0.9      | 0.0005               | 1.1704 E+04        |
| 116 | -0.0190           | -0.0263            | 3.5      | 0.0073               | 2.3672 E+04        |
| 117 | -0.0100           | -0.0174            | 3.5      | 0.0073               | 2.3672 E+04        |
| 118 | -0.0538           | -0.0643            | 4.1      | 0.0105               | 6.9430 E+04        |
| 119 | -0.0501           | -0.0616            | 4.3      | 0.0116               | 6.2465 E+04        |
| 120 | -0.0442           | -0.0585            | 4.8      | 0.0143               | 5.4196 E+04        |
| 121 | -0.0241           | -0.0384            | 4.8      | 0.0143               | 5.4196 E+04        |
| 122 | -0.0163           | -0.0275            | 4.3      | 0.0112               | 5.2603 E+04        |
| 123 | -0.0231           | -0.0266            | 2.4      | 0.0036               | 2.7098 E+04        |
| 124 | -0.0222           | -0.0231            | 1.2      | 0.0009               | 1.3549 E+04        |
| 125 | -0.0005           | -0.0005            | 0.0      | 0.0000               | 0.0000 E+04        |
| 126 | -0.0202           | -0.0275            | 3.5      | 0.0073               | 2.3672 E+04        |
| 127 | -0.0180           | -0.0253            | 3.5      | 0.0073               | 2.3672 E+04        |
| 128 | -0.0184           | -0.0220            | 2.4      | 0.0036               | 2.7098 E+04        |
| 129 | -0.0205           | -0.0214            | 1.2      | 0.0009               | 1.3549 E+04        |
| 130 | -0.0185           | -0.0258            | 3.5      | 0.0073               | 2.3672 E+04        |
| 131 | -0.0211           | -0.0220            | 1.2      | 0.0009               | 1.3549 E+04        |
| 132 | -0.0190           | -0.0199            | 1.2      | 0.0009               | 1.3549 E+04        |
| 133 | -0.0185           | -0.0258            | 3.5      | 0.0073               | 2.3672 E+04        |

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## SIZE DATA

System name : ESQUEM~1

17-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 42.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1797.1          | 6.0      | 600.0               | 500.0  | 600.0                 | 500.0  |
| 2   | REC   | 1797.1          | 6.0      | 600.0               | 500.0  | 600.0                 | 500.0  |
| 3   | REC   | 1797.1          | 6.0      | 600.0               | 500.0  | 600.0                 | 500.0  |
| 4   | REC   | 843.8           | 5.4      | 450.0               | 350.0  | 450.0                 | 350.0  |
| 5   | REC   | 310.8           | 4.4      | 350.0               | 200.0  | 350.0                 | 200.0  |
| 6   | REC   | 174.5           | 3.5      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 7   | REC   | 174.5           | 3.5      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 8   | REC   | 87.3            | 2.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 9   | REC   | 87.3            | 2.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 10  | REC   | 136.3           | 3.4      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 11  | REC   | 136.3           | 3.4      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 12  | REC   | 533.0           | 4.4      | 350.0               | 350.0  | 350.0                 | 350.0  |
| 13  | REC   | 396.8           | 4.5      | 350.0               | 250.0  | 350.0                 | 250.0  |
| 14  | REC   | 198.4           | 4.0      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 15  | REC   | 99.2            | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 16  | REC   | 99.2            | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 17  | REC   | 198.4           | 4.0      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 18  | REC   | 99.2            | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 19  | REC   | 99.2            | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 20  | REC   | 136.3           | 3.4      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 21  | REC   | 953.3           | 5.3      | 450.0               | 400.0  | 450.0                 | 400.0  |
| 22  | REC   | 671.5           | 4.8      | 400.0               | 350.0  | 400.0                 | 350.0  |
| 23  | REC   | 291.5           | 4.2      | 350.0               | 200.0  | 350.0                 | 200.0  |
| 24  | REC   | 136.3           | 3.4      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 25  | REC   | 136.3           | 3.4      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 26  | REC   | 155.3           | 3.1      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 27  | REC   | 380.0           | 4.2      | 300.0               | 300.0  | 300.0                 | 300.0  |
| 28  | REC   | 243.7           | 4.1      | 300.0               | 200.0  | 300.0                 | 200.0  |
| 29  | REC   | 140.7           | 3.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 30  | REC   | 70.4            | 3.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 31  | REC   | 70.4            | 3.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 32  | REC   | 51.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 33  | REC   | 51.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 34  | REC   | 136.3           | 3.4      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 35  | REC   | 145.5           | 3.6      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 36  | REC   | 145.5           | 3.6      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 37  | REC   | 72.8            | 2.4      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 38  | REC   | 72.8            | 2.4      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 39  | REC   | 72.8            | 2.4      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 40  | REC   | 72.8            | 2.4      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 41  | REC   | 136.3           | 3.4      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 42  | REC   | 136.3           | 3.4      | 200.0               | 200.0  | 200.0                 | 200.0  |

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## PRESSURE LOSS DATA

System name : ESQUEM~1

17-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 42.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0006        |
| 2   | 0.0057      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0069        |
| 3   | 0.0057      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0087        |
| 4   | 0.0066      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0163          | 0.0248        |
| 5   | 0.0010      | 0.0000                    | 0.0000                | 0.0044       | 0.0000        | 0.0038          | 0.0092        |
| 6   | 0.0034      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0058        |
| 7   | 0.0025      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0030        |
| 8   | 0.0020      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0165        |
| 9   | 0.0020      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0165        |
| 10  | 0.0035      | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0018          | 0.0087        |
| 11  | 0.0023      | 0.0140                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0166        |
| 12  | 0.0079      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0083        |
| 13  | -0.0003     | 0.0000                    | 0.0000                | 0.0038       | 0.0000        | 0.0000          | 0.0036        |
| 14  | 0.0037      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0053        |
| 15  | 0.0026      | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0174        |
| 16  | 0.0026      | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0174        |
| 17  | 0.0037      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0053        |
| 18  | 0.0026      | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0174        |
| 19  | 0.0026      | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0174        |
| 20  | 0.0050      | 0.0140                    | 0.0000                | 0.0010       | 0.0000        | 0.0062          | 0.0262        |
| 21  | 0.0064      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.0086        |
| 22  | 0.0002      | 0.0000                    | 0.0000                | 0.0039       | 0.0000        | 0.0097          | 0.0138        |
| 23  | 0.0006      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0130          | 0.0159        |
| 24  | 0.0004      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0019          | 0.0042        |
| 25  | 0.0023      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0168        |
| 26  | 0.0049      | 0.0140                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0210        |
| 27  | 0.0075      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0080        |
| 28  | -0.0003     | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0019        |
| 29  | 0.0001      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0063          | 0.0093        |
| 30  | 0.0022      | 0.0140                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0177        |
| 31  | 0.0022      | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0008          | 0.0177        |
| 32  | 0.0122      | 0.0140                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0269        |
| 33  | 0.0122      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0002          | 0.0269        |
| 34  | 0.0043      | 0.0140                    | 0.0000                | 0.0006       | 0.0000        | 0.0100          | 0.0289        |
| 35  | 0.0265      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0290        |
| 36  | 0.0025      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0029        |
| 37  | 0.0022      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0033        |
| 38  | 0.0014      | 0.0140                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0155        |
| 39  | 0.0022      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0007          | 0.0033        |
| 40  | 0.0014      | 0.0140                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0155        |
| 41  | 0.0256      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0075          | 0.0337        |
| 42  | 0.0023      | 0.0140                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0170        |

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## C-VALUE DATA

System name : ESQUEM~1

17-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 42.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0273 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2568  | 0.0000            | 0.0000        | 0.0546 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2568  | 0.0000            | 0.0000        | 0.1370 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2975  | 0.0000            | 0.0000        | 0.1129 | 0.0000 | 0.9217  |
| 5   | 4   | 0.0542  | 0.0000            | 0.0000        | 0.3664 | 0.0000 | 0.3115  |
| 6   | 5   | 0.2786  | 0.0000            | 0.0000        | 0.3275 | 0.0000 | 0.0000  |
| 7   | 6   | 0.3318  | 0.0000            | 0.0000        | 0.0709 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2700  | 4.7900            | 0.0000        | 0.1757 | 0.0000 | 0.0000  |
| 9   | 7   | 0.2700  | 4.7900            | 0.0000        | 0.1757 | 0.0000 | 0.0000  |
| 10  | 5   | 0.2929  | 0.0000            | 0.0000        | 0.4835 | 0.0000 | 0.2461  |
| 11  | 10  | 0.3160  | 1.9642            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 12  | 4   | 0.4498  | 0.0000            | 0.0000        | 0.0360 | 0.0000 | 0.0000  |
| 13  | 12  | -0.0244 | 0.0000            | 0.0000        | 0.3046 | 0.0000 | 0.0000  |
| 14  | 13  | 0.2929  | 0.0000            | 0.0000        | 0.1617 | 0.0000 | 0.0000  |
| 15  | 14  | 0.2700  | 3.7055            | 0.0000        | 0.1967 | 0.0000 | 0.0000  |
| 16  | 14  | 0.2700  | 3.7055            | 0.0000        | 0.1967 | 0.0000 | 0.0000  |
| 17  | 13  | 0.2929  | 0.0000            | 0.0000        | 0.1614 | 0.0000 | 0.0003  |
| 18  | 17  | 0.2700  | 3.7055            | 0.0000        | 0.1967 | 0.0000 | 0.0000  |
| 19  | 17  | 0.2700  | 3.7055            | 0.0000        | 0.1967 | 0.0000 | 0.0000  |
| 20  | 12  | 0.4341  | 1.9642            | 0.0000        | 0.1369 | 0.0000 | 0.8639  |
| 21  | 3   | 0.2900  | 0.0000            | 0.0000        | 0.1300 | 0.0000 | 0.0000  |
| 22  | 21  | 0.0094  | 0.0000            | 0.0000        | 0.2783 | 0.0000 | 0.6873  |
| 23  | 22  | 0.0391  | 0.0000            | 0.0000        | 0.2137 | 0.0000 | 1.2238  |
| 24  | 23  | 0.0363  | 0.0000            | 0.0000        | 0.2672 | 0.0000 | 0.2718  |
| 25  | 24  | 0.3160  | 1.9642            | 0.0000        | 0.0758 | 0.0000 | 0.0000  |
| 26  | 23  | 0.4632  | 2.3630            | 0.0000        | 0.3520 | 0.0000 | 0.0000  |
| 27  | 22  | 0.5325  | 0.0000            | 0.0000        | 0.0439 | 0.0000 | 0.0000  |
| 28  | 27  | -0.0295 | 0.0000            | 0.0000        | 0.2227 | 0.0000 | 0.0000  |
| 29  | 28  | 0.0134  | 0.0000            | 0.0000        | 0.3738 | 0.0000 | 0.8279  |
| 30  | 29  | 0.2938  | 2.3306            | 0.0000        | 0.2404 | 0.0000 | 0.0000  |
| 31  | 29  | 0.2938  | 2.3306            | 0.0000        | 0.1087 | 0.0000 | 0.1317  |
| 32  | 28  | 1.2033  | 4.3501            | 0.0000        | 0.2341 | 0.0000 | 0.0000  |
| 33  | 28  | 1.2033  | 4.3501            | 0.0000        | 0.1612 | 0.0000 | 0.0728  |
| 34  | 27  | 0.3913  | 1.9642            | 0.0000        | 0.0893 | 0.0000 | 1.3978  |
| 35  | 21  | 1.5363  | 0.0000            | 0.0000        | 0.3139 | 0.0000 | 0.0000  |
| 36  | 35  | 0.3124  | 0.0000            | 0.0000        | 0.0398 | 0.0000 | 0.0000  |
| 37  | 36  | 0.2750  | 0.0000            | 0.0000        | 0.3080 | 0.0000 | 0.0000  |
| 38  | 37  | 0.3747  | 3.8755            | 0.0000        | 0.0320 | 0.0000 | 0.0000  |
| 39  | 36  | 0.2750  | 0.0000            | 0.0000        | 0.1050 | 0.0000 | 0.2030  |
| 40  | 39  | 0.3747  | 3.8755            | 0.0000        | 0.0320 | 0.0000 | 0.0000  |
| 41  | 21  | 1.4845  | 0.0000            | 0.0000        | 0.0758 | 0.0000 | 1.0590  |
| 42  | 41  | 0.3160  | 1.9642            | 0.0000        | 0.1097 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : ESQUEM~1

17-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 1797.1 L/s |
| Fan Static Pressure .....                     | :           | 0.0141 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.0755 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.0755 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.0755 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.0141 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.0755 kPa |
| Total Downstream Losses ..... | : | 0.0755 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : ESQUEM~1

17-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 42.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.0755            | 0.0534             | 6.0      | 0.0220               | 24.5528 E+04       |
| 2   | 0.0749            | 0.0528             | 6.0      | 0.0220               | 24.5528 E+04       |
| 3   | 0.0680            | 0.0460             | 6.0      | 0.0220               | 24.5528 E+04       |
| 4   | 0.0431            | 0.0254             | 5.4      | 0.0176               | 15.8963 E+04       |
| 5   | 0.0308            | 0.0187             | 4.4      | 0.0121               | 8.7140 E+04        |
| 6   | 0.0254            | 0.0179             | 3.5      | 0.0075               | 5.8370 E+04        |
| 7   | 0.0195            | 0.0121             | 3.5      | 0.0075               | 5.8370 E+04        |
| 8   | 0.0165            | 0.0136             | 2.2      | 0.0029               | 3.2680 E+04        |
| 9   | 0.0165            | 0.0136             | 2.2      | 0.0029               | 3.2680 E+04        |
| 10  | 0.0236            | 0.0165             | 3.4      | 0.0071               | 5.1034 E+04        |
| 11  | 0.0166            | 0.0095             | 3.4      | 0.0071               | 5.1034 E+04        |
| 12  | 0.0345            | 0.0229             | 4.4      | 0.0116               | 11.4091 E+04       |
| 13  | 0.0262            | 0.0135             | 4.5      | 0.0126               | 10.0136 E+04       |
| 14  | 0.0226            | 0.0129             | 4.0      | 0.0097               | 6.6364 E+04        |
| 15  | 0.0174            | 0.0136             | 2.5      | 0.0038               | 3.7156 E+04        |
| 16  | 0.0174            | 0.0136             | 2.5      | 0.0038               | 3.7156 E+04        |
| 17  | 0.0226            | 0.0129             | 4.0      | 0.0097               | 6.6364 E+04        |
| 18  | 0.0174            | 0.0136             | 2.5      | 0.0038               | 3.7156 E+04        |
| 19  | 0.0174            | 0.0136             | 2.5      | 0.0038               | 3.7156 E+04        |
| 20  | 0.0200            | 0.0129             | 3.4      | 0.0071               | 5.1034 E+04        |
| 21  | 0.0593            | 0.0421             | 5.3      | 0.0172               | 16.8242 E+04       |
| 22  | 0.0410            | 0.0269             | 4.8      | 0.0141               | 13.4367 E+04       |
| 23  | 0.0239            | 0.0132             | 4.2      | 0.0107               | 8.1751 E+04        |
| 24  | 0.0191            | 0.0120             | 3.4      | 0.0071               | 5.1034 E+04        |
| 25  | 0.0168            | 0.0097             | 3.4      | 0.0071               | 5.1034 E+04        |
| 26  | 0.0210            | 0.0151             | 3.1      | 0.0059               | 5.1941 E+04        |
| 27  | 0.0369            | 0.0259             | 4.2      | 0.0109               | 9.4881 E+04        |
| 28  | 0.0289            | 0.0187             | 4.1      | 0.0101               | 7.4157 E+04        |
| 29  | 0.0207            | 0.0131             | 3.5      | 0.0076               | 5.2708 E+04        |
| 30  | 0.0177            | 0.0117             | 3.1      | 0.0060               | 3.5139 E+04        |
| 31  | 0.0169            | 0.0109             | 3.1      | 0.0060               | 3.5139 E+04        |
| 32  | 0.0269            | 0.0237             | 2.3      | 0.0032               | 2.5720 E+04        |
| 33  | 0.0267            | 0.0235             | 2.3      | 0.0032               | 2.5720 E+04        |
| 34  | 0.0189            | 0.0118             | 3.4      | 0.0071               | 5.1034 E+04        |
| 35  | 0.0507            | 0.0426             | 3.6      | 0.0081               | 5.4499 E+04        |
| 36  | 0.0217            | 0.0136             | 3.6      | 0.0081               | 5.4499 E+04        |
| 37  | 0.0188            | 0.0152             | 2.4      | 0.0036               | 3.1384 E+04        |
| 38  | 0.0155            | 0.0119             | 2.4      | 0.0036               | 3.1384 E+04        |
| 39  | 0.0181            | 0.0145             | 2.4      | 0.0036               | 3.1384 E+04        |
| 40  | 0.0155            | 0.0119             | 2.4      | 0.0036               | 3.1384 E+04        |
| 41  | 0.0432            | 0.0360             | 3.4      | 0.0071               | 5.1034 E+04        |
| 42  | 0.0170            | 0.0099             | 3.4      | 0.0071               | 5.1034 E+04        |

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## SIZE DATA

System name : 0102RE~1

17-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 40.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1617.0          | 5.9      | 550.0               | 500.0  | 550.0                 | 500.0  |
| 2   | REC   | 1617.0          | 5.9      | 550.0               | 500.0  | 550.0                 | 500.0  |
| 3   | REC   | 1617.0          | 5.9      | 550.0               | 500.0  | 550.0                 | 500.0  |
| 4   | REC   | 893.3           | 5.6      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 5   | REC   | 768.4           | 5.5      | 400.0               | 350.0  | 400.0                 | 350.0  |
| 6   | REC   | 651.5           | 5.3      | 350.0               | 350.0  | 350.0                 | 350.0  |
| 7   | REC   | 401.2           | 4.6      | 350.0               | 250.0  | 350.0                 | 250.0  |
| 8   | REC   | 262.8           | 4.2      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 9   | REC   | 262.8           | 4.2      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 10  | REC   | 145.8           | 3.6      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 11  | REC   | 145.8           | 3.6      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 12  | REC   | 120.8           | 4.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 13  | REC   | 60.4            | 2.7      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 14  | REC   | 60.4            | 2.7      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 15  | REC   | 60.4            | 2.7      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 16  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 17  | REC   | 116.9           | 2.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 18  | REC   | 138.5           | 3.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 19  | REC   | 113.5           | 2.8      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 20  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 21  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 22  | REC   | 88.5            | 2.9      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 23  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 24  | REC   | 250.2           | 4.0      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 25  | REC   | 133.3           | 3.3      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 26  | REC   | 116.9           | 2.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 27  | REC   | 116.9           | 2.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 28  | REC   | 124.9           | 3.1      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 29  | REC   | 723.7           | 5.2      | 400.0               | 350.0  | 400.0                 | 350.0  |
| 30  | REC   | 606.7           | 5.1      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 31  | REC   | 340.5           | 4.5      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 32  | REC   | 340.5           | 4.5      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 33  | REC   | 340.5           | 4.5      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 34  | REC   | 170.3           | 3.4      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 35  | REC   | 170.3           | 3.4      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 36  | REC   | 266.2           | 4.3      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 37  | REC   | 149.3           | 3.7      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 38  | REC   | 149.3           | 3.7      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 39  | REC   | 116.9           | 2.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 40  | REC   | 116.9           | 2.9      | 200.0               | 200.0  | 200.0                 | 200.0  |

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## PRESSURE LOSS DATA

System name : 0102RE~1

17-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 40.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0006        |
| 2   | 0.0053      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0065        |
| 3   | 0.0053      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0073        |
| 4   | 0.0043      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0051        |
| 5   | 0.0039      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0072        |
| 6   | 0.0040      | 0.0000                    | 0.0000                | 0.0049       | 0.0000        | 0.0000          | 0.0089        |
| 7   | 0.0078      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0083        |
| 8   | 0.0054      | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0000          | 0.0081        |
| 9   | 0.0032      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0062        |
| 10  | 0.0053      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0076        |
| 11  | 0.0025      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0038        |
| 12  | 0.0019      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0044        |
| 13  | 0.0053      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0069        |
| 14  | 0.0015      | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0162        |
| 15  | 0.0055      | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0029          | 0.0231        |
| 16  | -0.0059     | 0.0140                    | 0.0000                | 0.0001       | 0.0000        | 0.0192          | 0.0275        |
| 17  | 0.0044      | 0.0140                    | 0.0000                | 0.0003       | 0.0000        | 0.0202          | 0.0389        |
| 18  | -0.0005     | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0254          | 0.0257        |
| 19  | 0.0018      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0030        |
| 20  | 0.0030      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0070          | 0.0101        |
| 21  | 0.0003      | 0.0140                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0144        |
| 22  | 0.0091      | 0.0140                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0245        |
| 23  | -0.0052     | 0.0140                    | 0.0000                | 0.0001       | 0.0000        | 0.0186          | 0.0274        |
| 24  | 0.0033      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0334          | 0.0372        |
| 25  | 0.0050      | 0.0140                    | 0.0000                | 0.0052       | 0.0000        | 0.0000          | 0.0242        |
| 26  | 0.0045      | 0.0140                    | 0.0000                | 0.0003       | 0.0000        | 0.0053          | 0.0242        |
| 27  | -0.0139     | 0.0140                    | 0.0000                | 0.0004       | 0.0000        | 0.0698          | 0.0703        |
| 28  | -0.0148     | 0.0140                    | 0.0000                | 0.0033       | 0.0000        | 0.0750          | 0.0775        |
| 29  | 0.0048      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0300          | 0.0358        |
| 30  | 0.0037      | 0.0000                    | 0.0000                | 0.0046       | 0.0000        | 0.0000          | 0.0083        |
| 31  | 0.0030      | 0.0000                    | 0.0000                | 0.0057       | 0.0000        | 0.0000          | 0.0087        |
| 32  | 0.0038      | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0000          | 0.0072        |
| 33  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0043        |
| 34  | 0.0022      | 0.0140                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0183        |
| 35  | 0.0022      | 0.0140                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0183        |
| 36  | 0.0035      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0075          | 0.0117        |
| 37  | 0.0054      | 0.0000                    | 0.0000                | 0.0038       | 0.0000        | 0.0000          | 0.0092        |
| 38  | 0.0027      | 0.0140                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0176        |
| 39  | 0.0043      | 0.0140                    | 0.0000                | 0.0003       | 0.0000        | 0.0083          | 0.0268        |
| 40  | -0.0121     | 0.0140                    | 0.0000                | 0.0004       | 0.0000        | 0.0445          | 0.0468        |

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## C-VALUE DATA

System name : 0102RE~1

17-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 40.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0288 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2499  | 0.0000            | 0.0000        | 0.0577 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2499  | 0.0000            | 0.0000        | 0.0956 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2038  | 0.0000            | 0.0000        | 0.0424 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2038  | 0.0000            | 0.0000        | 0.1764 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2174  | 0.0000            | 0.0000        | 0.2804 | 0.0000 | 0.0000  |
| 7   | 6   | 0.4473  | 0.0000            | 0.0000        | 0.0387 | 0.0000 | 0.0000  |
| 8   | 7   | 0.4161  | 0.0000            | 0.0000        | 0.2470 | 0.0000 | 0.0000  |
| 9   | 8   | 0.2909  | 0.0000            | 0.0000        | 0.2803 | 0.0000 | 0.0000  |
| 10  | 9   | 0.4916  | 0.0000            | 0.0000        | 0.2825 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3123  | 0.0000            | 0.0000        | 0.1498 | 0.0000 | 0.0000  |
| 12  | 11  | 0.2386  | 0.0000            | 0.0000        | 0.2455 | 0.0000 | 0.0000  |
| 13  | 12  | 0.5300  | 0.0000            | 0.0000        | 0.3596 | 0.0000 | 0.0000  |
| 14  | 13  | 0.3441  | 3.1626            | 0.0000        | 0.1548 | 0.0000 | 0.0000  |
| 15  | 12  | 0.5500  | 3.1626            | 0.0000        | 0.1548 | 0.0000 | 0.6587  |
| 16  | 11  | -0.7228 | 18.4600           | 0.0000        | 0.1868 | 0.0000 | 25.3553 |
| 17  | 9   | 0.4018  | 2.6660            | 0.0000        | 0.0535 | 0.0000 | 3.8548  |
| 18  | 7   | -0.0380 | 0.0000            | 0.0000        | 0.1017 | 0.0000 | 3.4541  |
| 19  | 18  | 0.2486  | 0.0000            | 0.0000        | 0.2275 | 0.0000 | 0.0000  |
| 20  | 19  | 0.5980  | 0.0000            | 0.0000        | 0.1448 | 0.0000 | 9.2260  |
| 21  | 20  | 0.4080  | 18.4600           | 0.0000        | 0.1548 | 0.0000 | 0.0000  |
| 22  | 19  | 1.8429  | 2.6188            | 0.0000        | 0.2575 | 0.0000 | 0.0000  |
| 23  | 18  | -0.7092 | 18.4600           | 0.0000        | 0.1548 | 0.0000 | 24.4632 |
| 24  | 6   | 0.1877  | 0.0000            | 0.0000        | 0.0607 | 0.0000 | 3.3875  |
| 25  | 24  | 0.5072  | 2.0531            | 0.0000        | 0.7639 | 0.0000 | 0.0000  |
| 26  | 24  | 0.4619  | 2.6660            | 0.0000        | 0.0585 | 0.0000 | 1.0183  |
| 27  | 5   | -0.7517 | 2.6660            | 0.0000        | 0.0850 | 0.0000 | 13.2872 |
| 28  | 4   | -0.7703 | 2.3375            | 0.0000        | 0.5449 | 0.0000 | 12.5159 |
| 29  | 3   | 0.2271  | 0.0000            | 0.0000        | 0.0609 | 0.0000 | 1.8248  |
| 30  | 29  | 0.2278  | 0.0000            | 0.0000        | 0.2914 | 0.0000 | 0.0000  |
| 31  | 30  | 0.1900  | 0.0000            | 0.0000        | 0.4521 | 0.0000 | 0.0000  |
| 32  | 31  | 0.2965  | 0.0000            | 0.0000        | 0.2712 | 0.0000 | 0.0000  |
| 33  | 32  | 0.2965  | 0.0000            | 0.0000        | 0.0449 | 0.0000 | 0.0000  |
| 34  | 33  | 0.1767  | 1.9655            | 0.0000        | 0.2903 | 0.0000 | 0.0000  |
| 35  | 33  | 0.1767  | 1.9655            | 0.0000        | 0.2903 | 0.0000 | 0.0000  |
| 36  | 30  | 0.2233  | 0.0000            | 0.0000        | 0.0600 | 0.0000 | 0.6732  |
| 37  | 36  | 0.4875  | 0.0000            | 0.0000        | 0.4458 | 0.0000 | 0.0000  |
| 38  | 37  | 0.3109  | 1.6365            | 0.0000        | 0.1099 | 0.0000 | 0.0000  |
| 39  | 36  | 0.3861  | 2.6660            | 0.0000        | 0.0497 | 0.0000 | 1.5773  |
| 40  | 29  | -0.7376 | 2.6660            | 0.0000        | 0.0850 | 0.0000 | 8.4743  |

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## FAN DATA PRINTOUT

System name : 0102RE~1

17-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 1617.0 L/s  |
| Fan Static Pressure .....                     | :           | 0.0357 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.0971 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.0971 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.0971 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1585 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.0971 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.0971 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0102RE~1

17-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 40.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.0971           | -0.1183            | 5.9      | 0.0212               | 23.0927 E+04       |
| 2   | -0.0965           | -0.1177            | 5.9      | 0.0212               | 23.0927 E+04       |
| 3   | -0.0900           | -0.1112            | 5.9      | 0.0212               | 23.0927 E+04       |
| 4   | -0.0826           | -0.1018            | 5.6      | 0.0191               | 16.7301 E+04       |
| 5   | -0.0775           | -0.0960            | 5.5      | 0.0185               | 15.3761 E+04       |
| 6   | -0.0703           | -0.0877            | 5.3      | 0.0174               | 13.9437 E+04       |
| 7   | -0.0614           | -0.0743            | 4.6      | 0.0129               | 10.1259 E+04       |
| 8   | -0.0531           | -0.0640            | 4.2      | 0.0109               | 7.8733 E+04        |
| 9   | -0.0451           | -0.0559            | 4.2      | 0.0109               | 7.8733 E+04        |
| 10  | -0.0389           | -0.0470            | 3.6      | 0.0082               | 5.4611 E+04        |
| 11  | -0.0312           | -0.0394            | 3.6      | 0.0082               | 5.4611 E+04        |
| 12  | -0.0275           | -0.0374            | 4.0      | 0.0100               | 5.2112 E+04        |
| 13  | -0.0231           | -0.0275            | 2.7      | 0.0044               | 3.0165 E+04        |
| 14  | -0.0162           | -0.0206            | 2.7      | 0.0044               | 3.0165 E+04        |
| 15  | -0.0202           | -0.0246            | 2.7      | 0.0044               | 3.0165 E+04        |
| 16  | -0.0082           | -0.0090            | 1.1      | 0.0008               | 1.2485 E+04        |
| 17  | -0.0186           | -0.0239            | 2.9      | 0.0053               | 4.3805 E+04        |
| 18  | -0.0277           | -0.0351            | 3.5      | 0.0074               | 5.1877 E+04        |
| 19  | -0.0274           | -0.0324            | 2.8      | 0.0049               | 4.2513 E+04        |
| 20  | -0.0175           | -0.0183            | 1.1      | 0.0008               | 1.2485 E+04        |
| 21  | -0.0144           | -0.0152            | 1.1      | 0.0008               | 1.2485 E+04        |
| 22  | -0.0245           | -0.0298            | 2.9      | 0.0053               | 3.8178 E+04        |
| 23  | -0.0089           | -0.0097            | 1.1      | 0.0008               | 1.2485 E+04        |
| 24  | -0.0281           | -0.0379            | 4.0      | 0.0098               | 7.4978 E+04        |
| 25  | -0.0242           | -0.0310            | 3.3      | 0.0068               | 4.9918 E+04        |
| 26  | -0.0189           | -0.0241            | 2.9      | 0.0053               | 4.3805 E+04        |
| 27  | -0.0005           | -0.0058            | 2.9      | 0.0053               | 4.3805 E+04        |
| 28  | -0.0025           | -0.0085            | 3.1      | 0.0060               | 4.6783 E+04        |
| 29  | -0.0527           | -0.0691            | 5.2      | 0.0164               | 14.4810 E+04       |
| 30  | -0.0468           | -0.0625            | 5.1      | 0.0157               | 13.0871 E+04       |
| 31  | -0.0385           | -0.0512            | 4.5      | 0.0127               | 9.3049 E+04        |
| 32  | -0.0298           | -0.0425            | 4.5      | 0.0127               | 9.3049 E+04        |
| 33  | -0.0226           | -0.0353            | 4.5      | 0.0127               | 9.3049 E+04        |
| 34  | -0.0183           | -0.0254            | 3.4      | 0.0071               | 5.6952 E+04        |
| 35  | -0.0183           | -0.0254            | 3.4      | 0.0071               | 5.6952 E+04        |
| 36  | -0.0310           | -0.0422            | 4.3      | 0.0111               | 7.9772 E+04        |
| 37  | -0.0268           | -0.0354            | 3.7      | 0.0086               | 5.5911 E+04        |
| 38  | -0.0176           | -0.0262            | 3.7      | 0.0086               | 5.5911 E+04        |
| 39  | -0.0186           | -0.0238            | 2.9      | 0.0053               | 4.3805 E+04        |
| 40  | -0.0023           | -0.0076            | 2.9      | 0.0053               | 4.3805 E+04        |

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## SIZE DATA

System name : 0103I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Shape | Airflow | Velocity | Metal |        | Airflow |        |
|-----|-------|---------|----------|-------|--------|---------|--------|
|     |       | Rate    |          | Width | Height | Width   | Height |
|     |       | L/s     | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 676.1   | 5.6      | 400.0 | 300.0  | 400.0   | 300.0  |
| 2   | REC   | 676.1   | 5.6      | 400.0 | 300.0  | 400.0   | 300.0  |
| 3   | REC   | 676.1   | 5.6      | 400.0 | 300.0  | 400.0   | 300.0  |
| 4   | REC   | 676.1   | 5.6      | 400.0 | 300.0  | 400.0   | 300.0  |
| 5   | REC   | 676.1   | 5.6      | 400.0 | 300.0  | 400.0   | 300.0  |
| 6   | REC   | 676.1   | 5.6      | 400.0 | 300.0  | 400.0   | 300.0  |
| 7   | REC   | 338.0   | 4.5      | 300.0 | 250.0  | 300.0   | 250.0  |
| 8   | REC   | 338.0   | 4.5      | 300.0 | 250.0  | 300.0   | 250.0  |
| 9   | REC   | 169.0   | 2.7      | 250.0 | 250.0  | 250.0   | 250.0  |
| 10  | REC   | 169.0   | 2.7      | 250.0 | 250.0  | 250.0   | 250.0  |
| 11  | REC   | 169.0   | 2.7      | 250.0 | 250.0  | 250.0   | 250.0  |
| 12  | REC   | 338.0   | 4.5      | 300.0 | 250.0  | 300.0   | 250.0  |
| 13  | REC   | 338.0   | 4.5      | 300.0 | 250.0  | 300.0   | 250.0  |
| 14  | REC   | 169.0   | 2.7      | 250.0 | 250.0  | 250.0   | 250.0  |
| 15  | REC   | 169.0   | 2.7      | 250.0 | 250.0  | 250.0   | 250.0  |
| 16  | REC   | 169.0   | 2.7      | 250.0 | 250.0  | 250.0   | 250.0  |

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## PRESSURE LOSS DATA

System name : 0103I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0009        |
| 2   | 0.0052      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0061        |
| 3   | 0.0052      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.0073        |
| 4   | 0.0052      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0059        |
| 5   | 0.0052      | 0.0000                    | 0.0000                | 0.0028       | 0.0340        | 0.0000          | 0.0420        |
| 6   | 0.0052      | 0.0000                    | 0.0000                | 0.0036       | 0.0000        | 0.0000          | 0.0088        |
| 7   | 0.0056      | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0000          | 0.0083        |
| 8   | 0.0037      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0062        |
| 9   | 0.0007      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0012          | 0.0034        |
| 10  | 0.0014      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5016        |
| 11  | 0.0048      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5050        |
| 12  | 0.0056      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0012          | 0.0083        |
| 13  | 0.0037      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0062        |
| 14  | 0.0007      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0012          | 0.0034        |
| 15  | 0.0014      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5016        |
| 16  | 0.0048      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5050        |

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## C-VALUE DATA

System name : 0103I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 16.

```

-----
Sec   Frm      Fit      Equip      Equip      Fric      Other      Balance
      Terminal  Thru
-----
  1     0      0.0000    0.0000    0.0000    0.0478    0.0000    0.0000
  2     1      0.2645    0.0000    0.0000    0.0478    0.0000    0.0000
  3     2      0.2645    0.0000    0.0000    0.1103    0.0000    0.0000
  4     3      0.2645    0.0000    0.0000    0.0390    0.0000    0.0000
  5     4      0.2645    0.0000    0.0000    0.1433    1.7437    0.0000
  6     5      0.2645    0.0000    0.0000    0.1862    0.0000    0.0000
  7     6      0.2875    0.0000    0.0000    0.2173    0.0000    0.0000
  8     7      0.2971    0.0000    0.0000    0.1970    0.0000    0.0000
  9     8      0.0567    0.0000    0.0000    0.3269    0.0000    0.2733
 10    9      0.3164   111.2944    0.0000    0.0433    0.0000    0.0000
 11    8      0.3867   111.2944    0.0000    0.0433    0.0000    0.0000
 12    6      0.2875    0.0000    0.0000    0.1192    0.0000    0.0978
 13   12      0.2971    0.0000    0.0000    0.1970    0.0000    0.0000
 14   13      0.0567    0.0000    0.0000    0.3269    0.0000    0.2733
 15   14      0.3164   111.2944    0.0000    0.0440    0.0000    0.0000
 16   13      0.3867   111.2944    0.0000    0.0440    0.0000    0.0000
-----
*****

```



## FAN DATA PRINTOUT

System name : 0103I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 676.1 L/s  |
| Fan Static Pressure .....                     | :           | 0.5291 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.5905 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.5905 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.5905 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.5291 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.5905 kPa |
| Total Downstream Losses ..... | : | 0.5905 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0103I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.5905            | 0.5710             | 5.6      | 0.0195               | 14.5828 E+04       |
| 2   | 0.5896            | 0.5701             | 5.6      | 0.0195               | 14.5828 E+04       |
| 3   | 0.5835            | 0.5640             | 5.6      | 0.0195               | 14.5828 E+04       |
| 4   | 0.5762            | 0.5567             | 5.6      | 0.0195               | 14.5828 E+04       |
| 5   | 0.5702            | 0.5507             | 5.6      | 0.0195               | 14.5828 E+04       |
| 6   | 0.5283            | 0.5088             | 5.6      | 0.0195               | 14.5828 E+04       |
| 7   | 0.5195            | 0.5070             | 4.5      | 0.0125               | 9.2372 E+04        |
| 8   | 0.5112            | 0.4987             | 4.5      | 0.0125               | 9.2372 E+04        |
| 9   | 0.5038            | 0.4993             | 2.7      | 0.0045               | 5.0647 E+04        |
| 10  | 0.5016            | 0.4971             | 2.7      | 0.0045               | 5.0647 E+04        |
| 11  | 0.5050            | 0.5005             | 2.7      | 0.0045               | 5.0647 E+04        |
| 12  | 0.5183            | 0.5058             | 4.5      | 0.0125               | 9.2372 E+04        |
| 13  | 0.5112            | 0.4987             | 4.5      | 0.0125               | 9.2372 E+04        |
| 14  | 0.5038            | 0.4993             | 2.7      | 0.0045               | 5.0647 E+04        |
| 15  | 0.5016            | 0.4971             | 2.7      | 0.0045               | 5.0647 E+04        |
| 16  | 0.5050            | 0.5005             | 2.7      | 0.0045               | 5.0647 E+04        |

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## SIZE DATA

System name : 0103r

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 6   | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 7   | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 8   | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 9   | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 10  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 11  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 12  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 13  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 14  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 15  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 16  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 17  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 18  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 19  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 20  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 21  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 22  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 23  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 24  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 25  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 26  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 27  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 28  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 29  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 30  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## PRESSURE LOSS DATA

System name : 0103r

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0032       | 0.0000        | 0.0000          | 0.0032        |
| 2   | 0.0045      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0057        |
| 3   | 0.0045      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0070        |
| 4   | 0.0045      | 0.0000                    | 0.0000                | 0.0034       | 0.0280        | 0.0000          | 0.0359        |
| 5   | 0.0032      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0007          | 0.0056        |
| 6   | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 7   | 0.0057      | 0.0000                    | 0.0000                | 0.0075       | 0.0000        | 0.0000          | 0.0133        |
| 8   | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 9   | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 10  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 11  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 12  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 13  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0111          | 0.0178        |
| 14  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 15  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 16  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 17  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 18  | 0.0032      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0053        |
| 19  | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 20  | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 21  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 22  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 23  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 24  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 25  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 26  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 27  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 28  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 29  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 30  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |

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## C-VALUE DATA

System name : 0103r

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.1886 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2680  | 0.0000            | 0.0000        | 0.0684 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2680  | 0.0000            | 0.0000        | 0.1450 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2680  | 0.0000            | 0.0000        | 0.1990 | 1.6533 | 0.0000  |
| 5   | 4   | 0.1900  | 0.0000            | 0.0000        | 0.1595 | 0.0000 | 0.0637  |
| 6   | 5   | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 7   | 6   | 0.5300  | 0.0000            | 0.0000        | 0.6938 | 0.0000 | 0.0000  |
| 8   | 7   | 0.3529  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 0.0000  |
| 9   | 8   | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 10  | 9   | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 12  | 9   | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 13  | 6   | 0.5500  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 1.0267  |
| 14  | 13  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 15  | 14  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 16  | 15  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 17  | 14  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 18  | 4   | 0.1900  | 0.0000            | 0.0000        | 0.1881 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 20  | 19  | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 21  | 20  | 0.3529  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 0.0000  |
| 22  | 21  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 23  | 22  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 25  | 22  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 26  | 19  | 0.5500  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 1.0579  |
| 27  | 26  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 28  | 27  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 29  | 28  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 30  | 27  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |

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## FAN DATA PRINTOUT

System name : 0103r 13-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 630.1 L/s   |
| Fan Static Pressure .....                     | :           | 0.0502 kPa  |
| <hr/>   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1117 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1117 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| <hr/>   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| <hr/>   |             |             |
| Total Pressure .....                          | -0.1117 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1731 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.1117 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1117 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0103r

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1117           | -0.1286            | 5.3      | 0.0169               | 13.5906 E+04       |
| 2   | -0.1085           | -0.1254            | 5.3      | 0.0169               | 13.5906 E+04       |
| 3   | -0.1028           | -0.1197            | 5.3      | 0.0169               | 13.5906 E+04       |
| 4   | -0.0958           | -0.1127            | 5.3      | 0.0169               | 13.5906 E+04       |
| 5   | -0.0592           | -0.0700            | 4.2      | 0.0108               | 8.6087 E+04        |
| 6   | -0.0542           | -0.0651            | 4.2      | 0.0108               | 8.6087 E+04        |
| 7   | -0.0501           | -0.0609            | 4.2      | 0.0108               | 6.0446 E+04        |
| 8   | -0.0368           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 9   | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 10  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 11  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 12  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 13  | -0.0390           | -0.0498            | 4.2      | 0.0108               | 6.0446 E+04        |
| 14  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 15  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 16  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 17  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 18  | -0.0599           | -0.0707            | 4.2      | 0.0108               | 8.6087 E+04        |
| 19  | -0.0546           | -0.0655            | 4.2      | 0.0108               | 8.6087 E+04        |
| 20  | -0.0505           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 21  | -0.0369           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 22  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 23  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 24  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 25  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 26  | -0.0390           | -0.0499            | 4.2      | 0.0108               | 6.0446 E+04        |
| 27  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 28  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 29  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 30  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |

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## SIZE DATA

System name : 0104I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 646.9           | 5.4      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 646.9           | 5.4      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 646.9           | 5.4      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 646.9           | 5.4      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 646.9           | 5.4      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 6   | REC   | 646.9           | 5.4      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 7   | REC   | 323.5           | 4.3      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 8   | REC   | 323.5           | 4.3      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 9   | REC   | 161.7           | 2.6      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 10  | REC   | 161.7           | 2.6      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 11  | REC   | 161.7           | 2.6      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 12  | REC   | 323.5           | 4.3      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 13  | REC   | 323.5           | 4.3      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 14  | REC   | 161.7           | 2.6      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 15  | REC   | 161.7           | 2.6      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 16  | REC   | 161.7           | 2.6      | 250.0               | 250.0  | 250.0                 | 250.0  |

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## PRESSURE LOSS DATA

System name : 0104I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0009        |
| 2   | 0.0047      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0056        |
| 3   | 0.0047      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0067        |
| 4   | 0.0047      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0054        |
| 5   | 0.0047      | 0.0000                    | 0.0000                | 0.0026       | 0.0340        | 0.0000          | 0.0413        |
| 6   | 0.0047      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0081        |
| 7   | 0.0051      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0076        |
| 8   | 0.0034      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0057        |
| 9   | 0.0006      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0011          | 0.0031        |
| 10  | 0.0013      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5015        |
| 11  | 0.0044      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5046        |
| 12  | 0.0051      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0011          | 0.0076        |
| 13  | 0.0034      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0057        |
| 14  | 0.0006      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0011          | 0.0031        |
| 15  | 0.0013      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5015        |
| 16  | 0.0044      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5046        |

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## C-VALUE DATA

System name : 0104I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0481 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2649 | 0.0000            | 0.0000        | 0.0481 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2649 | 0.0000            | 0.0000        | 0.1111 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2649 | 0.0000            | 0.0000        | 0.0393 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2649 | 0.0000            | 0.0000        | 0.1444 | 1.9044 | 0.0000  |
| 6   | 5   | 0.2649 | 0.0000            | 0.0000        | 0.1875 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2875 | 0.0000            | 0.0000        | 0.2190 | 0.0000 | 0.0000  |
| 8   | 7   | 0.3007 | 0.0000            | 0.0000        | 0.1985 | 0.0000 | 0.0000  |
| 9   | 8   | 0.0567 | 0.0000            | 0.0000        | 0.3298 | 0.0000 | 0.2682  |
| 10  | 9   | 0.3187 | 121.5537          | 0.0000        | 0.0437 | 0.0000 | 0.0000  |
| 11  | 8   | 0.3867 | 121.5537          | 0.0000        | 0.0437 | 0.0000 | 0.0000  |
| 12  | 6   | 0.2875 | 0.0000            | 0.0000        | 0.1201 | 0.0000 | 0.0986  |
| 13  | 12  | 0.3007 | 0.0000            | 0.0000        | 0.1985 | 0.0000 | 0.0000  |
| 14  | 13  | 0.0567 | 0.0000            | 0.0000        | 0.3298 | 0.0000 | 0.2682  |
| 15  | 14  | 0.3187 | 121.5537          | 0.0000        | 0.0444 | 0.0000 | 0.0000  |
| 16  | 13  | 0.3867 | 121.5537          | 0.0000        | 0.0444 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0104I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 646.9 L/s  |
| Fan Static Pressure .....                     | :           | 0.5245 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.5859 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.5859 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.5859 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.5245 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.5859 kPa |
| Total Downstream Losses ..... | : | 0.5859 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0104I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.5859            | 0.5681             | 5.4      | 0.0179               | 13.9538 E+04       |
| 2   | 0.5851            | 0.5672             | 5.4      | 0.0179               | 13.9538 E+04       |
| 3   | 0.5795            | 0.5616             | 5.4      | 0.0179               | 13.9538 E+04       |
| 4   | 0.5728            | 0.5549             | 5.4      | 0.0179               | 13.9538 E+04       |
| 5   | 0.5673            | 0.5495             | 5.4      | 0.0179               | 13.9538 E+04       |
| 6   | 0.5260            | 0.5082             | 5.4      | 0.0179               | 13.9538 E+04       |
| 7   | 0.5179            | 0.5065             | 4.3      | 0.0114               | 8.8388 E+04        |
| 8   | 0.5103            | 0.4989             | 4.3      | 0.0114               | 8.8388 E+04        |
| 9   | 0.5035            | 0.4994             | 2.6      | 0.0041               | 4.8462 E+04        |
| 10  | 0.5015            | 0.4974             | 2.6      | 0.0041               | 4.8462 E+04        |
| 11  | 0.5046            | 0.5005             | 2.6      | 0.0041               | 4.8462 E+04        |
| 12  | 0.5168            | 0.5054             | 4.3      | 0.0114               | 8.8388 E+04        |
| 13  | 0.5103            | 0.4989             | 4.3      | 0.0114               | 8.8388 E+04        |
| 14  | 0.5035            | 0.4994             | 2.6      | 0.0041               | 4.8462 E+04        |
| 15  | 0.5015            | 0.4974             | 2.6      | 0.0041               | 4.8462 E+04        |
| 16  | 0.5046            | 0.5005             | 2.6      | 0.0041               | 4.8462 E+04        |

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## SIZE DATA

System name : 0104R

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 584.1           | 4.9      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 584.1           | 4.9      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 584.1           | 4.9      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 584.1           | 4.9      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 292.1           | 3.9      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 6   | REC   | 292.1           | 3.9      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 7   | REC   | 146.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 8   | REC   | 146.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 9   | REC   | 146.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 10  | REC   | 98.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 11  | REC   | 98.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 12  | REC   | 48.5            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 13  | REC   | 145.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 14  | REC   | 145.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 15  | REC   | 97.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 16  | REC   | 97.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 17  | REC   | 48.5            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 18  | REC   | 292.1           | 3.9      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 19  | REC   | 292.1           | 3.9      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 20  | REC   | 146.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 21  | REC   | 146.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 22  | REC   | 146.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 23  | REC   | 98.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 24  | REC   | 98.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 25  | REC   | 48.5            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 26  | REC   | 145.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 27  | REC   | 145.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 28  | REC   | 97.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 29  | REC   | 97.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 30  | REC   | 48.5            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## PRESSURE LOSS DATA

System name : 0104R

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0028        |
| 2   | 0.0040      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0050        |
| 3   | 0.0040      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0062        |
| 4   | 0.0040      | 0.0000                    | 0.0000                | 0.0029       | 0.0280        | 0.0000          | 0.0350        |
| 5   | 0.0028      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0006          | 0.0049        |
| 6   | 0.0029      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0036        |
| 7   | 0.0049      | 0.0000                    | 0.0000                | 0.0066       | 0.0000        | 0.0000          | 0.0115        |
| 8   | 0.0034      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0039        |
| 9   | 0.0034      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0039        |
| 10  | 0.0038      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0052        |
| 11  | 0.0016      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0217        |
| 12  | -0.0011     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0080          | 0.0269        |
| 13  | 0.0051      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0099          | 0.0156        |
| 14  | 0.0033      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0038        |
| 15  | 0.0038      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0052        |
| 16  | 0.0016      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0217        |
| 17  | -0.0010     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0077          | 0.0268        |
| 18  | 0.0028      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0045        |
| 19  | 0.0029      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0036        |
| 20  | 0.0049      | 0.0000                    | 0.0000                | 0.0069       | 0.0000        | 0.0000          | 0.0118        |
| 21  | 0.0034      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0040        |
| 22  | 0.0034      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0039        |
| 23  | 0.0038      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0052        |
| 24  | 0.0016      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0217        |
| 25  | -0.0011     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0080          | 0.0269        |
| 26  | 0.0051      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0102          | 0.0159        |
| 27  | 0.0033      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0038        |
| 28  | 0.0038      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0052        |
| 29  | 0.0016      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0217        |
| 30  | -0.0010     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0077          | 0.0268        |

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## C-VALUE DATA

System name : 0104R

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.1910 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2766  | 0.0000            | 0.0000        | 0.0692 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2766  | 0.0000            | 0.0000        | 0.1468 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2766  | 0.0000            | 0.0000        | 0.2015 | 1.9237 | 0.0000  |
| 5   | 4   | 0.1900  | 0.0000            | 0.0000        | 0.1616 | 0.0000 | 0.0648  |
| 6   | 5   | 0.3084  | 0.0000            | 0.0000        | 0.0793 | 0.0000 | 0.0000  |
| 7   | 6   | 0.5288  | 0.0000            | 0.0000        | 0.7028 | 0.0000 | 0.0000  |
| 8   | 7   | 0.3579  | 0.0000            | 0.0000        | 0.0623 | 0.0000 | 0.0000  |
| 9   | 8   | 0.3579  | 0.0000            | 0.0000        | 0.0530 | 0.0000 | 0.0000  |
| 10  | 9   | 0.4048  | 0.0000            | 0.0000        | 0.3431 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3821  | 4.7642            | 0.0000        | 0.0221 | 0.0000 | 0.0000  |
| 12  | 9   | -0.1203 | 7.0070            | 0.0000        | 0.0313 | 0.0000 | 2.7932  |
| 13  | 6   | 0.5454  | 0.0000            | 0.0000        | 0.0624 | 0.0000 | 1.0745  |
| 14  | 13  | 0.3583  | 0.0000            | 0.0000        | 0.0530 | 0.0000 | 0.0000  |
| 15  | 14  | 0.4066  | 0.0000            | 0.0000        | 0.3438 | 0.0000 | 0.0000  |
| 16  | 15  | 0.3829  | 4.8630            | 0.0000        | 0.0221 | 0.0000 | 0.0000  |
| 17  | 14  | -0.1071 | 7.0070            | 0.0000        | 0.0313 | 0.0000 | 2.7127  |
| 18  | 4   | 0.1900  | 0.0000            | 0.0000        | 0.1906 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3084  | 0.0000            | 0.0000        | 0.0793 | 0.0000 | 0.0000  |
| 20  | 19  | 0.5288  | 0.0000            | 0.0000        | 0.7344 | 0.0000 | 0.0000  |
| 21  | 20  | 0.3579  | 0.0000            | 0.0000        | 0.0662 | 0.0000 | 0.0000  |
| 22  | 21  | 0.3579  | 0.0000            | 0.0000        | 0.0530 | 0.0000 | 0.0000  |
| 23  | 22  | 0.4048  | 0.0000            | 0.0000        | 0.3431 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3821  | 4.7642            | 0.0000        | 0.0221 | 0.0000 | 0.0000  |
| 25  | 22  | -0.1203 | 7.0070            | 0.0000        | 0.0313 | 0.0000 | 2.7932  |
| 26  | 19  | 0.5454  | 0.0000            | 0.0000        | 0.0663 | 0.0000 | 1.1067  |
| 27  | 26  | 0.3583  | 0.0000            | 0.0000        | 0.0530 | 0.0000 | 0.0000  |
| 28  | 27  | 0.4066  | 0.0000            | 0.0000        | 0.3438 | 0.0000 | 0.0000  |
| 29  | 28  | 0.3829  | 4.8630            | 0.0000        | 0.0221 | 0.0000 | 0.0000  |
| 30  | 27  | -0.1071 | 7.0070            | 0.0000        | 0.0313 | 0.0000 | 2.7127  |

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## FAN DATA PRINTOUT

System name : 0104R 13-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| -----   |             |             |
| Fan Airflow Rate .....                        | :           | 584.1 L/s   |
| Fan Static Pressure .....                     | :           | 0.0422 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1037 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1037 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1037 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1651 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| -----                       |   |             |
| Return System Loss .....    | : | -0.1037 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1037 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| -----                         |   |            |
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| -----                     |   |                |
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0104R

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1037           | -0.1182            | 4.9      | 0.0146               | 12.5992 E+04       |
| 2   | -0.1009           | -0.1154            | 4.9      | 0.0146               | 12.5992 E+04       |
| 3   | -0.0959           | -0.1104            | 4.9      | 0.0146               | 12.5992 E+04       |
| 4   | -0.0897           | -0.1042            | 4.9      | 0.0146               | 12.5992 E+04       |
| 5   | -0.0541           | -0.0634            | 3.9      | 0.0093               | 7.9807 E+04        |
| 6   | -0.0499           | -0.0592            | 3.9      | 0.0093               | 7.9807 E+04        |
| 7   | -0.0462           | -0.0556            | 3.9      | 0.0094               | 5.6229 E+04        |
| 8   | -0.0347           | -0.0441            | 3.9      | 0.0094               | 5.6229 E+04        |
| 9   | -0.0308           | -0.0402            | 3.9      | 0.0094               | 5.6229 E+04        |
| 10  | -0.0269           | -0.0311            | 2.6      | 0.0042               | 3.7618 E+04        |
| 11  | -0.0217           | -0.0259            | 2.6      | 0.0042               | 3.7618 E+04        |
| 12  | -0.0190           | -0.0218            | 2.2      | 0.0029               | 2.4222 E+04        |
| 13  | -0.0363           | -0.0456            | 3.9      | 0.0093               | 5.5845 E+04        |
| 14  | -0.0306           | -0.0399            | 3.9      | 0.0093               | 5.5845 E+04        |
| 15  | -0.0268           | -0.0310            | 2.6      | 0.0041               | 3.7234 E+04        |
| 16  | -0.0217           | -0.0258            | 2.6      | 0.0041               | 3.7234 E+04        |
| 17  | -0.0191           | -0.0220            | 2.2      | 0.0029               | 2.4222 E+04        |
| 18  | -0.0547           | -0.0640            | 3.9      | 0.0093               | 7.9807 E+04        |
| 19  | -0.0502           | -0.0595            | 3.9      | 0.0093               | 7.9807 E+04        |
| 20  | -0.0466           | -0.0560            | 3.9      | 0.0094               | 5.6229 E+04        |
| 21  | -0.0348           | -0.0441            | 3.9      | 0.0094               | 5.6229 E+04        |
| 22  | -0.0308           | -0.0402            | 3.9      | 0.0094               | 5.6229 E+04        |
| 23  | -0.0269           | -0.0311            | 2.6      | 0.0042               | 3.7618 E+04        |
| 24  | -0.0217           | -0.0259            | 2.6      | 0.0042               | 3.7618 E+04        |
| 25  | -0.0190           | -0.0218            | 2.2      | 0.0029               | 2.4222 E+04        |
| 26  | -0.0363           | -0.0456            | 3.9      | 0.0093               | 5.5845 E+04        |
| 27  | -0.0306           | -0.0399            | 3.9      | 0.0093               | 5.5845 E+04        |
| 28  | -0.0268           | -0.0310            | 2.6      | 0.0041               | 3.7234 E+04        |
| 29  | -0.0217           | -0.0258            | 2.6      | 0.0041               | 3.7234 E+04        |
| 30  | -0.0191           | -0.0220            | 2.2      | 0.0029               | 2.4222 E+04        |

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## SIZE DATA

System name : 0105I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 646.9           | 5.4      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 646.9           | 5.4      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 646.9           | 5.4      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 646.9           | 5.4      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 646.9           | 5.4      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 6   | REC   | 646.9           | 5.4      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 7   | REC   | 323.5           | 4.3      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 8   | REC   | 323.5           | 4.3      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 9   | REC   | 161.7           | 2.6      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 10  | REC   | 161.7           | 2.6      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 11  | REC   | 161.7           | 2.6      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 12  | REC   | 323.5           | 4.3      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 13  | REC   | 323.5           | 4.3      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 14  | REC   | 161.7           | 2.6      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 15  | REC   | 161.7           | 2.6      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 16  | REC   | 161.7           | 2.6      | 250.0               | 250.0  | 250.0                 | 250.0  |

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## PRESSURE LOSS DATA

System name : 0105I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0009        |
| 2   | 0.0047      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0056        |
| 3   | 0.0047      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0067        |
| 4   | 0.0047      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0054        |
| 5   | 0.0047      | 0.0000                    | 0.0000                | 0.0026       | 0.0340        | 0.0000          | 0.0413        |
| 6   | 0.0047      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0081        |
| 7   | 0.0051      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0076        |
| 8   | 0.0034      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0057        |
| 9   | 0.0006      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0011          | 0.0031        |
| 10  | 0.0013      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5015        |
| 11  | 0.0044      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5046        |
| 12  | 0.0051      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0011          | 0.0076        |
| 13  | 0.0034      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0057        |
| 14  | 0.0006      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0011          | 0.0031        |
| 15  | 0.0013      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5015        |
| 16  | 0.0044      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5046        |

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## C-VALUE DATA

System name : 0105I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0481 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2649 | 0.0000            | 0.0000        | 0.0481 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2649 | 0.0000            | 0.0000        | 0.1111 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2649 | 0.0000            | 0.0000        | 0.0393 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2649 | 0.0000            | 0.0000        | 0.1444 | 1.9044 | 0.0000  |
| 6   | 5   | 0.2649 | 0.0000            | 0.0000        | 0.1875 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2875 | 0.0000            | 0.0000        | 0.2190 | 0.0000 | 0.0000  |
| 8   | 7   | 0.3007 | 0.0000            | 0.0000        | 0.1985 | 0.0000 | 0.0000  |
| 9   | 8   | 0.0567 | 0.0000            | 0.0000        | 0.3298 | 0.0000 | 0.2682  |
| 10  | 9   | 0.3187 | 121.5537          | 0.0000        | 0.0437 | 0.0000 | 0.0000  |
| 11  | 8   | 0.3867 | 121.5537          | 0.0000        | 0.0437 | 0.0000 | 0.0000  |
| 12  | 6   | 0.2875 | 0.0000            | 0.0000        | 0.1201 | 0.0000 | 0.0986  |
| 13  | 12  | 0.3007 | 0.0000            | 0.0000        | 0.1985 | 0.0000 | 0.0000  |
| 14  | 13  | 0.0567 | 0.0000            | 0.0000        | 0.3298 | 0.0000 | 0.2682  |
| 15  | 14  | 0.3187 | 121.5537          | 0.0000        | 0.0444 | 0.0000 | 0.0000  |
| 16  | 13  | 0.3867 | 121.5537          | 0.0000        | 0.0444 | 0.0000 | 0.0000  |

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PRESSURE LOSS DATA II

System name : 0105I

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.5859            | 0.5681             | 5.4      | 0.0179               | 13.9538 E+04       |
| 2   | 0.5851            | 0.5672             | 5.4      | 0.0179               | 13.9538 E+04       |
| 3   | 0.5795            | 0.5616             | 5.4      | 0.0179               | 13.9538 E+04       |
| 4   | 0.5728            | 0.5549             | 5.4      | 0.0179               | 13.9538 E+04       |
| 5   | 0.5673            | 0.5495             | 5.4      | 0.0179               | 13.9538 E+04       |
| 6   | 0.5260            | 0.5082             | 5.4      | 0.0179               | 13.9538 E+04       |
| 7   | 0.5179            | 0.5065             | 4.3      | 0.0114               | 8.8388 E+04        |
| 8   | 0.5103            | 0.4989             | 4.3      | 0.0114               | 8.8388 E+04        |
| 9   | 0.5035            | 0.4994             | 2.6      | 0.0041               | 4.8462 E+04        |
| 10  | 0.5015            | 0.4974             | 2.6      | 0.0041               | 4.8462 E+04        |
| 11  | 0.5046            | 0.5005             | 2.6      | 0.0041               | 4.8462 E+04        |
| 12  | 0.5168            | 0.5054             | 4.3      | 0.0114               | 8.8388 E+04        |
| 13  | 0.5103            | 0.4989             | 4.3      | 0.0114               | 8.8388 E+04        |
| 14  | 0.5035            | 0.4994             | 2.6      | 0.0041               | 4.8462 E+04        |
| 15  | 0.5015            | 0.4974             | 2.6      | 0.0041               | 4.8462 E+04        |
| 16  | 0.5046            | 0.5005             | 2.6      | 0.0041               | 4.8462 E+04        |

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## SIZE DATA

System name : 0105R

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 584.1           | 4.9      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 584.1           | 4.9      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 584.1           | 4.9      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 584.1           | 4.9      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 292.1           | 3.9      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 6   | REC   | 292.1           | 3.9      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 7   | REC   | 146.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 8   | REC   | 146.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 9   | REC   | 146.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 10  | REC   | 98.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 11  | REC   | 98.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 12  | REC   | 48.5            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 13  | REC   | 145.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 14  | REC   | 145.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 15  | REC   | 97.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 16  | REC   | 97.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 17  | REC   | 48.5            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 18  | REC   | 292.1           | 3.9      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 19  | REC   | 292.1           | 3.9      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 20  | REC   | 146.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 21  | REC   | 146.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 22  | REC   | 146.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 23  | REC   | 98.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 24  | REC   | 98.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 25  | REC   | 48.5            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 26  | REC   | 145.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 27  | REC   | 145.5           | 3.9      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 28  | REC   | 97.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 29  | REC   | 97.0            | 2.6      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 30  | REC   | 48.5            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## PRESSURE LOSS DATA

System name : 0105R

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0028        |
| 2   | 0.0040      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0050        |
| 3   | 0.0040      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0062        |
| 4   | 0.0040      | 0.0000                    | 0.0000                | 0.0029       | 0.0280        | 0.0000          | 0.0350        |
| 5   | 0.0028      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0006          | 0.0049        |
| 6   | 0.0029      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0036        |
| 7   | 0.0049      | 0.0000                    | 0.0000                | 0.0066       | 0.0000        | 0.0000          | 0.0115        |
| 8   | 0.0034      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0039        |
| 9   | 0.0034      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0039        |
| 10  | 0.0038      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0052        |
| 11  | 0.0016      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0217        |
| 12  | -0.0011     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0080          | 0.0269        |
| 13  | 0.0051      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0099          | 0.0156        |
| 14  | 0.0033      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0038        |
| 15  | 0.0038      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0052        |
| 16  | 0.0016      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0217        |
| 17  | -0.0010     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0077          | 0.0268        |
| 18  | 0.0028      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0045        |
| 19  | 0.0029      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0036        |
| 20  | 0.0049      | 0.0000                    | 0.0000                | 0.0069       | 0.0000        | 0.0000          | 0.0118        |
| 21  | 0.0034      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0040        |
| 22  | 0.0034      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0039        |
| 23  | 0.0038      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0052        |
| 24  | 0.0016      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0217        |
| 25  | -0.0011     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0080          | 0.0269        |
| 26  | 0.0051      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0102          | 0.0159        |
| 27  | 0.0033      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0038        |
| 28  | 0.0038      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0052        |
| 29  | 0.0016      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0217        |
| 30  | -0.0010     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0077          | 0.0268        |

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## C-VALUE DATA

System name : 0105R

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.1910 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2766  | 0.0000            | 0.0000        | 0.0692 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2766  | 0.0000            | 0.0000        | 0.1468 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2766  | 0.0000            | 0.0000        | 0.2015 | 1.9237 | 0.0000  |
| 5   | 4   | 0.1900  | 0.0000            | 0.0000        | 0.1616 | 0.0000 | 0.0648  |
| 6   | 5   | 0.3084  | 0.0000            | 0.0000        | 0.0793 | 0.0000 | 0.0000  |
| 7   | 6   | 0.5288  | 0.0000            | 0.0000        | 0.7028 | 0.0000 | 0.0000  |
| 8   | 7   | 0.3579  | 0.0000            | 0.0000        | 0.0623 | 0.0000 | 0.0000  |
| 9   | 8   | 0.3579  | 0.0000            | 0.0000        | 0.0530 | 0.0000 | 0.0000  |
| 10  | 9   | 0.4048  | 0.0000            | 0.0000        | 0.3431 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3821  | 4.7642            | 0.0000        | 0.0221 | 0.0000 | 0.0000  |
| 12  | 9   | -0.1203 | 7.0070            | 0.0000        | 0.0313 | 0.0000 | 2.7932  |
| 13  | 6   | 0.5454  | 0.0000            | 0.0000        | 0.0624 | 0.0000 | 1.0745  |
| 14  | 13  | 0.3583  | 0.0000            | 0.0000        | 0.0530 | 0.0000 | 0.0000  |
| 15  | 14  | 0.4066  | 0.0000            | 0.0000        | 0.3438 | 0.0000 | 0.0000  |
| 16  | 15  | 0.3829  | 4.8630            | 0.0000        | 0.0221 | 0.0000 | 0.0000  |
| 17  | 14  | -0.1071 | 7.0070            | 0.0000        | 0.0313 | 0.0000 | 2.7127  |
| 18  | 4   | 0.1900  | 0.0000            | 0.0000        | 0.1906 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3084  | 0.0000            | 0.0000        | 0.0793 | 0.0000 | 0.0000  |
| 20  | 19  | 0.5288  | 0.0000            | 0.0000        | 0.7344 | 0.0000 | 0.0000  |
| 21  | 20  | 0.3579  | 0.0000            | 0.0000        | 0.0662 | 0.0000 | 0.0000  |
| 22  | 21  | 0.3579  | 0.0000            | 0.0000        | 0.0530 | 0.0000 | 0.0000  |
| 23  | 22  | 0.4048  | 0.0000            | 0.0000        | 0.3431 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3821  | 4.7642            | 0.0000        | 0.0221 | 0.0000 | 0.0000  |
| 25  | 22  | -0.1203 | 7.0070            | 0.0000        | 0.0313 | 0.0000 | 2.7932  |
| 26  | 19  | 0.5454  | 0.0000            | 0.0000        | 0.0663 | 0.0000 | 1.1067  |
| 27  | 26  | 0.3583  | 0.0000            | 0.0000        | 0.0530 | 0.0000 | 0.0000  |
| 28  | 27  | 0.4066  | 0.0000            | 0.0000        | 0.3438 | 0.0000 | 0.0000  |
| 29  | 28  | 0.3829  | 4.8630            | 0.0000        | 0.0221 | 0.0000 | 0.0000  |
| 30  | 27  | -0.1071 | 7.0070            | 0.0000        | 0.0313 | 0.0000 | 2.7127  |

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## FAN DATA PRINTOUT

System name : 0105R 13-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 584.1 L/s   |
| Fan Static Pressure .....                     | :           | 0.0422 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1037 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1037 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1037 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1651 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.1037 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1037 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0105R

13-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1037           | -0.1182            | 4.9      | 0.0146               | 12.5992 E+04       |
| 2   | -0.1009           | -0.1154            | 4.9      | 0.0146               | 12.5992 E+04       |
| 3   | -0.0959           | -0.1104            | 4.9      | 0.0146               | 12.5992 E+04       |
| 4   | -0.0897           | -0.1042            | 4.9      | 0.0146               | 12.5992 E+04       |
| 5   | -0.0541           | -0.0634            | 3.9      | 0.0093               | 7.9807 E+04        |
| 6   | -0.0499           | -0.0592            | 3.9      | 0.0093               | 7.9807 E+04        |
| 7   | -0.0462           | -0.0556            | 3.9      | 0.0094               | 5.6229 E+04        |
| 8   | -0.0347           | -0.0441            | 3.9      | 0.0094               | 5.6229 E+04        |
| 9   | -0.0308           | -0.0402            | 3.9      | 0.0094               | 5.6229 E+04        |
| 10  | -0.0269           | -0.0311            | 2.6      | 0.0042               | 3.7618 E+04        |
| 11  | -0.0217           | -0.0259            | 2.6      | 0.0042               | 3.7618 E+04        |
| 12  | -0.0190           | -0.0218            | 2.2      | 0.0029               | 2.4222 E+04        |
| 13  | -0.0363           | -0.0456            | 3.9      | 0.0093               | 5.5845 E+04        |
| 14  | -0.0306           | -0.0399            | 3.9      | 0.0093               | 5.5845 E+04        |
| 15  | -0.0268           | -0.0310            | 2.6      | 0.0041               | 3.7234 E+04        |
| 16  | -0.0217           | -0.0258            | 2.6      | 0.0041               | 3.7234 E+04        |
| 17  | -0.0191           | -0.0220            | 2.2      | 0.0029               | 2.4222 E+04        |
| 18  | -0.0547           | -0.0640            | 3.9      | 0.0093               | 7.9807 E+04        |
| 19  | -0.0502           | -0.0595            | 3.9      | 0.0093               | 7.9807 E+04        |
| 20  | -0.0466           | -0.0560            | 3.9      | 0.0094               | 5.6229 E+04        |
| 21  | -0.0348           | -0.0441            | 3.9      | 0.0094               | 5.6229 E+04        |
| 22  | -0.0308           | -0.0402            | 3.9      | 0.0094               | 5.6229 E+04        |
| 23  | -0.0269           | -0.0311            | 2.6      | 0.0042               | 3.7618 E+04        |
| 24  | -0.0217           | -0.0259            | 2.6      | 0.0042               | 3.7618 E+04        |
| 25  | -0.0190           | -0.0218            | 2.2      | 0.0029               | 2.4222 E+04        |
| 26  | -0.0363           | -0.0456            | 3.9      | 0.0093               | 5.5845 E+04        |
| 27  | -0.0306           | -0.0399            | 3.9      | 0.0093               | 5.5845 E+04        |
| 28  | -0.0268           | -0.0310            | 2.6      | 0.0041               | 3.7234 E+04        |
| 29  | -0.0217           | -0.0258            | 2.6      | 0.0041               | 3.7234 E+04        |
| 30  | -0.0191           | -0.0220            | 2.2      | 0.0029               | 2.4222 E+04        |

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## SIZE DATA

System name : 0201I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 35.

| Sec | Shape | Airflow<br>Rate | Velocity <-----<br>m/s | Metal <-----<br>Width | Height | <----- Airflow<br>Width | Height |
|-----|-------|-----------------|------------------------|-----------------------|--------|-------------------------|--------|
|     |       | L/s             | m/s                    | mm                    | mm     | mm                      | mm     |
| 1   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 2   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 3   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 4   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 5   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 6   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 7   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 8   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 9   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 10  | REC   | 1254.0          | 6.3                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 11  | REC   | 978.9           | 5.6                    | 500.0                 | 350.0  | 500.0                   | 350.0  |
| 12  | REC   | 978.9           | 5.6                    | 500.0                 | 350.0  | 500.0                   | 350.0  |
| 13  | REC   | 652.6           | 6.2                    | 350.0                 | 300.0  | 350.0                   | 300.0  |
| 14  | REC   | 652.6           | 6.2                    | 350.0                 | 300.0  | 350.0                   | 300.0  |
| 15  | REC   | 326.3           | 5.2                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 16  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 17  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 18  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 19  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 20  | REC   | 326.3           | 5.2                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 21  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 22  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 23  | REC   | 326.3           | 5.2                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 24  | REC   | 326.3           | 5.2                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 25  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 26  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 27  | REC   | 275.1           | 4.4                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 28  | REC   | 112.0           | 3.7                    | 200.0                 | 150.0  | 200.0                   | 150.0  |
| 29  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 30  | REC   | 291.0           | 4.7                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 31  | REC   | 291.0           | 4.7                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 32  | REC   | 291.0           | 4.7                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 33  | REC   | 291.0           | 4.7                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 34  | REC   | 145.5           | 3.6                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 35  | REC   | 145.5           | 3.6                    | 200.0                 | 200.0  | 200.0                   | 200.0  |

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## PRESSURE LOSS DATA

System name : 0201I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 35.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0012        |
| 2   | 0.0095      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0120        |
| 3   | 0.0095      | 0.0000                    | 0.0000                | 0.0038       | 0.0000        | 0.0000          | 0.0133        |
| 4   | 0.0095      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0110        |
| 5   | 0.0095      | 0.0000                    | 0.0000                | 0.0057       | 0.0000        | 0.0000          | 0.0152        |
| 6   | 0.0095      | 0.0000                    | 0.0000                | 0.0041       | 0.0000        | 0.0000          | 0.0136        |
| 7   | 0.0095      | 0.0000                    | 0.0000                | 0.0136       | 0.0000        | 0.0000          | 0.0232        |
| 8   | 0.0095      | 0.0000                    | 0.0000                | 0.0057       | 0.0240        | 0.0000          | 0.0392        |
| 9   | 0.0095      | 0.0000                    | 0.0000                | 0.0035       | 0.0000        | 0.0000          | 0.0130        |
| 10  | -0.0005     | 0.0000                    | 0.0000                | 0.0050       | 0.0150        | 0.0149          | 0.0344        |
| 11  | -0.0004     | 0.0000                    | 0.0000                | 0.0035       | 0.0000        | 0.0000          | 0.0031        |
| 12  | 0.0052      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0061        |
| 13  | -0.0005     | 0.0000                    | 0.0000                | 0.0056       | 0.0000        | 0.0000          | 0.0052        |
| 14  | 0.0060      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0091        |
| 15  | 0.0069      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0088        |
| 16  | 0.0048      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0067        |
| 17  | 0.0031      | 0.5000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.5041        |
| 18  | 0.0048      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0067        |
| 19  | 0.0031      | 0.5000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.5041        |
| 20  | 0.0069      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0041          | 0.0129        |
| 21  | 0.0048      | 0.5000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.5067        |
| 22  | 0.0048      | 0.5000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.5067        |
| 23  | 0.0095      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0076          | 0.0202        |
| 24  | 0.0046      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0070        |
| 25  | 0.0048      | 0.5000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.5067        |
| 26  | 0.0048      | 0.5000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.5067        |
| 27  | 0.0097      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0275          | 0.0378        |
| 28  | 0.0036      | 0.5000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.5054        |
| 29  | 0.0034      | 0.5000                    | 0.0000                | 0.0018       | 0.0000        | 0.0002          | 0.5054        |
| 30  | 0.0151      | 0.0000                    | 0.0000                | 0.0118       | 0.0300        | 0.0000          | 0.0569        |
| 31  | 0.0038      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0054        |
| 32  | 0.0038      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0053        |
| 33  | 0.0038      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0050        |
| 34  | 0.0038      | 0.5000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.5049        |
| 35  | 0.0038      | 0.5000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.5049        |

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## C-VALUE DATA

System name : 0201I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 35.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0338 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2599  | 0.0000            | 0.0000        | 0.0677 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2599  | 0.0000            | 0.0000        | 0.1039 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2599  | 0.0000            | 0.0000        | 0.0409 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2599  | 0.0000            | 0.0000        | 0.1554 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2599  | 0.0000            | 0.0000        | 0.1106 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2599  | 0.0000            | 0.0000        | 0.3722 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2599  | 0.0000            | 0.0000        | 0.1559 | 0.6546 | 0.0000  |
| 9   | 8   | 0.2599  | 0.0000            | 0.0000        | 0.0959 | 0.0000 | 0.0000  |
| 10  | 9   | -0.0132 | 0.0000            | 0.0000        | 0.2080 | 0.6211 | 0.6154  |
| 11  | 10  | -0.0174 | 0.0000            | 0.0000        | 0.1839 | 0.0000 | 0.0000  |
| 12  | 11  | 0.2691  | 0.0000            | 0.0000        | 0.0506 | 0.0000 | 0.0000  |
| 13  | 12  | -0.0246 | 0.0000            | 0.0000        | 0.2377 | 0.0000 | 0.0000  |
| 14  | 13  | 0.2546  | 0.0000            | 0.0000        | 0.1304 | 0.0000 | 0.0000  |
| 15  | 14  | 0.2905  | 0.0000            | 0.0000        | 0.1165 | 0.0000 | 0.0000  |
| 16  | 15  | 0.2860  | 0.0000            | 0.0000        | 0.1874 | 0.0000 | 0.0000  |
| 17  | 16  | 0.3057  | 48.9255           | 0.0000        | 0.0914 | 0.0000 | 0.0000  |
| 18  | 15  | 0.2860  | 0.0000            | 0.0000        | 0.1874 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3057  | 48.9255           | 0.0000        | 0.0914 | 0.0000 | 0.0000  |
| 20  | 14  | 0.2905  | 0.0000            | 0.0000        | 0.1165 | 0.0000 | 0.2423  |
| 21  | 20  | 0.2860  | 48.9255           | 0.0000        | 0.1874 | 0.0000 | 0.0000  |
| 22  | 20  | 0.2860  | 48.9255           | 0.0000        | 0.1874 | 0.0000 | 0.0000  |
| 23  | 12  | 0.4935  | 0.0000            | 0.0000        | 0.1852 | 0.0000 | 0.4538  |
| 24  | 23  | 0.2749  | 0.0000            | 0.0000        | 0.1443 | 0.0000 | 0.0000  |
| 25  | 24  | 0.2860  | 48.9255           | 0.0000        | 0.1874 | 0.0000 | 0.0000  |
| 26  | 24  | 0.2860  | 48.9255           | 0.0000        | 0.1874 | 0.0000 | 0.0000  |
| 27  | 10  | 0.4005  | 0.0000            | 0.0000        | 0.0500 | 0.0000 | 2.3086  |
| 28  | 27  | 0.3000  | 58.3977           | 0.0000        | 0.2153 | 0.0000 | 0.0000  |
| 29  | 27  | 0.2860  | 48.9255           | 0.0000        | 0.1765 | 0.0000 | 0.0202  |
| 30  | 9   | 0.4121  | 0.0000            | 0.0000        | 0.8824 | 2.2528 | 0.0000  |
| 31  | 30  | 0.2838  | 0.0000            | 0.0000        | 0.1253 | 0.0000 | 0.0000  |
| 32  | 31  | 0.2838  | 0.0000            | 0.0000        | 0.1156 | 0.0000 | 0.0000  |
| 33  | 32  | 0.2838  | 0.0000            | 0.0000        | 0.0921 | 0.0000 | 0.0000  |
| 34  | 33  | 0.2860  | 61.5153           | 0.0000        | 0.1389 | 0.0000 | 0.0000  |
| 35  | 33  | 0.2860  | 61.5153           | 0.0000        | 0.1389 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0201I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 1545.1 L/s |
| Fan Static Pressure .....                     | :           | 0.6580 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.7195 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.7195 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.7195 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.6580 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.7195 kPa |
| Total Downstream Losses ..... | : | 0.7195 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0201I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 35.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.7195            | 0.6828             | 7.7      | 0.0367               | 25.8408 E+04       |
| 2   | 0.7182            | 0.6815             | 7.7      | 0.0367               | 25.8408 E+04       |
| 3   | 0.7062            | 0.6695             | 7.7      | 0.0367               | 25.8408 E+04       |
| 4   | 0.6929            | 0.6562             | 7.7      | 0.0367               | 25.8408 E+04       |
| 5   | 0.6818            | 0.6452             | 7.7      | 0.0367               | 25.8408 E+04       |
| 6   | 0.6666            | 0.6300             | 7.7      | 0.0367               | 25.8408 E+04       |
| 7   | 0.6530            | 0.6164             | 7.7      | 0.0367               | 25.8408 E+04       |
| 8   | 0.6299            | 0.5932             | 7.7      | 0.0367               | 25.8408 E+04       |
| 9   | 0.5906            | 0.5540             | 7.7      | 0.0367               | 25.8408 E+04       |
| 10  | 0.5627            | 0.5386             | 6.3      | 0.0242               | 20.9738 E+04       |
| 11  | 0.5432            | 0.5239             | 5.6      | 0.0192               | 17.4604 E+04       |
| 12  | 0.5401            | 0.5208             | 5.6      | 0.0192               | 17.4604 E+04       |
| 13  | 0.5339            | 0.5102             | 6.2      | 0.0237               | 15.0759 E+04       |
| 14  | 0.5287            | 0.5050             | 6.2      | 0.0237               | 15.0759 E+04       |
| 15  | 0.5196            | 0.5029             | 5.2      | 0.0167               | 9.7775 E+04        |
| 16  | 0.5108            | 0.5005             | 4.1      | 0.0102               | 6.1110 E+04        |
| 17  | 0.5041            | 0.4938             | 4.1      | 0.0102               | 6.1110 E+04        |
| 18  | 0.5108            | 0.5005             | 4.1      | 0.0102               | 6.1110 E+04        |
| 19  | 0.5041            | 0.4938             | 4.1      | 0.0102               | 6.1110 E+04        |
| 20  | 0.5155            | 0.4988             | 5.2      | 0.0167               | 9.7775 E+04        |
| 21  | 0.5067            | 0.4965             | 4.1      | 0.0102               | 6.1110 E+04        |
| 22  | 0.5067            | 0.4965             | 4.1      | 0.0102               | 6.1110 E+04        |
| 23  | 0.5263            | 0.5096             | 5.2      | 0.0167               | 9.7775 E+04        |
| 24  | 0.5137            | 0.4970             | 5.2      | 0.0167               | 9.7775 E+04        |
| 25  | 0.5067            | 0.4965             | 4.1      | 0.0102               | 6.1110 E+04        |
| 26  | 0.5067            | 0.4965             | 4.1      | 0.0102               | 6.1110 E+04        |
| 27  | 0.5157            | 0.5038             | 4.4      | 0.0119               | 8.2448 E+04        |
| 28  | 0.5054            | 0.4969             | 3.7      | 0.0086               | 4.8316 E+04        |
| 29  | 0.5052            | 0.4950             | 4.1      | 0.0102               | 6.1110 E+04        |
| 30  | 0.5776            | 0.5643             | 4.7      | 0.0133               | 8.7198 E+04        |
| 31  | 0.5207            | 0.5074             | 4.7      | 0.0133               | 8.7198 E+04        |
| 32  | 0.5153            | 0.5019             | 4.7      | 0.0133               | 8.7198 E+04        |
| 33  | 0.5099            | 0.4966             | 4.7      | 0.0133               | 8.7198 E+04        |
| 34  | 0.5049            | 0.4968             | 3.6      | 0.0081               | 5.4499 E+04        |
| 35  | 0.5049            | 0.4968             | 3.6      | 0.0081               | 5.4499 E+04        |

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## SIZE DATA

System name : 0201R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1390.2          | 7.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 2   | REC   | 1390.2          | 7.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 3   | REC   | 1390.2          | 7.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 4   | REC   | 1390.2          | 7.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 5   | REC   | 1390.2          | 7.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 6   | REC   | 1390.2          | 7.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 7   | REC   | 1390.2          | 7.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 8   | REC   | 1390.2          | 7.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 9   | REC   | 1390.2          | 7.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 10  | REC   | 1133.2          | 6.3      | 450.0               | 400.0  | 450.0                 | 400.0  |
| 11  | REC   | 1034.2          | 5.7      | 450.0               | 400.0  | 450.0                 | 400.0  |
| 12  | REC   | 1009.2          | 5.6      | 450.0               | 400.0  | 450.0                 | 400.0  |
| 13  | REC   | 841.0           | 5.3      | 450.0               | 350.0  | 450.0                 | 350.0  |
| 14  | REC   | 168.2           | 4.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 15  | REC   | 168.2           | 4.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 16  | REC   | 672.8           | 5.5      | 350.0               | 350.0  | 350.0                 | 350.0  |
| 17  | REC   | 504.6           | 4.8      | 350.0               | 300.0  | 350.0                 | 300.0  |
| 18  | REC   | 336.4           | 4.5      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 19  | REC   | 168.2           | 4.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 20  | REC   | 168.2           | 4.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 21  | REC   | 168.2           | 4.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 22  | REC   | 168.2           | 4.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 23  | REC   | 168.2           | 4.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 24  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 25  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 26  | REC   | 99.0            | 4.4      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 27  | REC   | 99.0            | 4.4      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 28  | REC   | 257.0           | 4.1      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 29  | REC   | 257.0           | 4.1      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 30  | REC   | 257.0           | 4.1      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 31  | REC   | 128.5           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 32  | REC   | 128.5           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |

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## PRESSURE LOSS DATA

System name : 0201R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0010        |
| 2   | 0.0077      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0097        |
| 3   | 0.0077      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0108        |
| 4   | 0.0077      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0089        |
| 5   | 0.0077      | 0.0000                    | 0.0000                | 0.0047       | 0.0000        | 0.0000          | 0.0124        |
| 6   | 0.0077      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0110        |
| 7   | 0.0077      | 0.0000                    | 0.0000                | 0.0112       | 0.0000        | 0.0000          | 0.0189        |
| 8   | 0.0077      | 0.0000                    | 0.0000                | 0.0046       | 0.0190        | 0.0000          | 0.0313        |
| 9   | 0.0077      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0088        |
| 10  | 0.0075      | 0.0000                    | 0.0000                | 0.0037       | 0.0260        | 0.0000          | 0.0372        |
| 11  | 0.0034      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0055        |
| 12  | 0.0008      | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0000          | 0.0035        |
| 13  | 0.0045      | 0.0000                    | 0.0000                | 0.0040       | 0.0000        | 0.0000          | 0.0086        |
| 14  | 0.0040      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0224          | 0.0279        |
| 15  | 0.0033      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0178        |
| 16  | 0.0025      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0047        |
| 17  | 0.0060      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0091        |
| 18  | 0.0058      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0090        |
| 19  | 0.0027      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0056          | 0.0228        |
| 20  | 0.0027      | 0.0140                    | 0.0000                | 0.0061       | 0.0000        | 0.0000          | 0.0228        |
| 21  | -0.0015     | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0187          | 0.0318        |
| 22  | -0.0091     | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0354          | 0.0410        |
| 23  | -0.0141     | 0.0140                    | 0.0000                | 0.0015       | 0.0000        | 0.0529          | 0.0543        |
| 24  | -0.0168     | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0567          | 0.0403        |
| 25  | 0.0003      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 26  | -0.0175     | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0570          | 0.0415        |
| 27  | 0.0038      | 0.0170                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0218        |
| 28  | -0.0163     | 0.0000                    | 0.0000                | 0.0079       | 0.0360        | 0.0389          | 0.0664        |
| 29  | 0.0030      | 0.0000                    | 0.0000                | 0.0032       | 0.0000        | 0.0000          | 0.0062        |
| 30  | 0.0030      | 0.0000                    | 0.0000                | 0.0038       | 0.0000        | 0.0000          | 0.0068        |
| 31  | 0.0019      | 0.0170                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0211        |
| 32  | 0.0019      | 0.0170                    | 0.0000                | 0.0013       | 0.0000        | 0.0009          | 0.0211        |

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## C-VALUE DATA

System name : 0201R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0343 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2599  | 0.0000            | 0.0000        | 0.0685 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2599  | 0.0000            | 0.0000        | 0.1052 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2599  | 0.0000            | 0.0000        | 0.0414 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2599  | 0.0000            | 0.0000        | 0.1574 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2599  | 0.0000            | 0.0000        | 0.1120 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2599  | 0.0000            | 0.0000        | 0.3770 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2599  | 0.0000            | 0.0000        | 0.1562 | 0.6401 | 0.0000  |
| 9   | 8   | 0.2599  | 0.0000            | 0.0000        | 0.0366 | 0.0000 | 0.0000  |
| 10  | 9   | 0.2534  | 0.0000            | 0.0000        | 0.1528 | 1.0679 | 0.0000  |
| 11  | 10  | 0.1398  | 0.0000            | 0.0000        | 0.1050 | 0.0000 | 0.0000  |
| 12  | 11  | 0.0387  | 0.0000            | 0.0000        | 0.1398 | 0.0000 | 0.0000  |
| 13  | 12  | 0.2333  | 0.0000            | 0.0000        | 0.2311 | 0.0000 | 0.0000  |
| 14  | 13  | 0.2300  | 0.0000            | 0.0000        | 0.1347 | 0.0000 | 2.0606  |
| 15  | 14  | 0.3041  | 1.2889            | 0.0000        | 0.0489 | 0.0000 | 0.0000  |
| 16  | 13  | 0.1411  | 0.0000            | 0.0000        | 0.1228 | 0.0000 | 0.0000  |
| 17  | 16  | 0.3250  | 0.0000            | 0.0000        | 0.2191 | 0.0000 | 0.0000  |
| 18  | 17  | 0.4067  | 0.0000            | 0.0000        | 0.2642 | 0.0000 | 0.0000  |
| 19  | 18  | 0.2193  | 1.2889            | 0.0000        | 0.0489 | 0.0000 | 0.5114  |
| 20  | 18  | 0.2193  | 1.2889            | 0.0000        | 0.5603 | 0.0000 | 0.0000  |
| 21  | 17  | -0.1067 | 1.2889            | 0.0000        | 0.0628 | 0.0000 | 1.7181  |
| 22  | 16  | -0.4900 | 1.2889            | 0.0000        | 0.0628 | 0.0000 | 3.2553  |
| 23  | 12  | -0.7300 | 1.2889            | 0.0000        | 0.1347 | 0.0000 | 4.8697  |
| 24  | 11  | -0.8300 | 0.0000            | 0.0000        | 0.6406 | 0.0000 | 74.7239 |
| 25  | 24  | 0.4080  | 22.4158           | 0.0000        | 0.1463 | 0.0000 | 0.0000  |
| 26  | 10  | -0.7200 | 0.0000            | 0.0000        | 0.1717 | 0.0000 | 4.7919  |
| 27  | 26  | 0.3177  | 1.4294            | 0.0000        | 0.0839 | 0.0000 | 0.0000  |
| 28  | 9   | -0.5503 | 0.0000            | 0.0000        | 0.7597 | 3.4659 | 3.7431  |
| 29  | 28  | 0.2923  | 0.0000            | 0.0000        | 0.3066 | 0.0000 | 0.0000  |
| 30  | 29  | 0.2923  | 0.0000            | 0.0000        | 0.3617 | 0.0000 | 0.0000  |
| 31  | 30  | 0.1852  | 2.6815            | 0.0000        | 0.3381 | 0.0000 | 0.0000  |
| 32  | 30  | 0.1852  | 2.6815            | 0.0000        | 0.1991 | 0.0000 | 0.1390  |

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## FAN DATA PRINTOUT

System name : 0201R 20-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| -----   |             |             |
| Fan Airflow Rate .....                        | :           | 1390.2 L/s  |
| Fan Static Pressure .....                     | :           | 0.1521 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.2135 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.2135 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.2135 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.2750 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| -----                       |   |             |
| Return System Loss .....    | : | -0.2135 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.2135 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| -----                         |   |            |
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| -----                     |   |                |
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| -----                     |   |                |

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## PRESSURE LOSS DATA II

System name : 0201R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.2135           | -0.2432            | 7.0      | 0.0297               | 23.2509 E+04       |
| 2   | -0.2125           | -0.2422            | 7.0      | 0.0297               | 23.2509 E+04       |
| 3   | -0.2028           | -0.2325            | 7.0      | 0.0297               | 23.2509 E+04       |
| 4   | -0.1919           | -0.2216            | 7.0      | 0.0297               | 23.2509 E+04       |
| 5   | -0.1830           | -0.2127            | 7.0      | 0.0297               | 23.2509 E+04       |
| 6   | -0.1706           | -0.2003            | 7.0      | 0.0297               | 23.2509 E+04       |
| 7   | -0.1596           | -0.1892            | 7.0      | 0.0297               | 23.2509 E+04       |
| 8   | -0.1407           | -0.1703            | 7.0      | 0.0297               | 23.2509 E+04       |
| 9   | -0.1093           | -0.1390            | 7.0      | 0.0297               | 23.2509 E+04       |
| 10  | -0.1005           | -0.1249            | 6.3      | 0.0243               | 20.0002 E+04       |
| 11  | -0.0633           | -0.0836            | 5.7      | 0.0203               | 18.2529 E+04       |
| 12  | -0.0577           | -0.0771            | 5.6      | 0.0193               | 17.8117 E+04       |
| 13  | -0.0543           | -0.0718            | 5.3      | 0.0175               | 15.8436 E+04       |
| 14  | -0.0233           | -0.0342            | 4.2      | 0.0109               | 6.3001 E+04        |
| 15  | -0.0178           | -0.0287            | 4.2      | 0.0109               | 6.3001 E+04        |
| 16  | -0.0457           | -0.0642            | 5.5      | 0.0185               | 14.4003 E+04       |
| 17  | -0.0410           | -0.0551            | 4.8      | 0.0142               | 11.6569 E+04       |
| 18  | -0.0318           | -0.0442            | 4.5      | 0.0124               | 9.1924 E+04        |
| 19  | -0.0172           | -0.0281            | 4.2      | 0.0109               | 6.3001 E+04        |
| 20  | -0.0228           | -0.0337            | 4.2      | 0.0109               | 6.3001 E+04        |
| 21  | -0.0132           | -0.0240            | 4.2      | 0.0109               | 6.3001 E+04        |
| 22  | -0.0056           | -0.0165            | 4.2      | 0.0109               | 6.3001 E+04        |
| 23  | -0.0014           | -0.0122            | 4.2      | 0.0109               | 6.3001 E+04        |
| 24  | -0.0011           | -0.0018            | 1.1      | 0.0008               | 1.2485 E+04        |
| 25  | -0.0174           | -0.0182            | 1.1      | 0.0008               | 1.2485 E+04        |
| 26  | -0.0063           | -0.0182            | 4.4      | 0.0119               | 4.9442 E+04        |
| 27  | -0.0218           | -0.0337            | 4.4      | 0.0119               | 4.9442 E+04        |
| 28  | -0.0616           | -0.0720            | 4.1      | 0.0104               | 7.7010 E+04        |
| 29  | -0.0341           | -0.0445            | 4.1      | 0.0104               | 7.7010 E+04        |
| 30  | -0.0279           | -0.0382            | 4.1      | 0.0104               | 7.7010 E+04        |
| 31  | -0.0211           | -0.0274            | 3.2      | 0.0063               | 4.8131 E+04        |
| 32  | -0.0202           | -0.0265            | 3.2      | 0.0063               | 4.8131 E+04        |

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## SIZE DATA

System name : 0201I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 35.

| Sec | Shape | Airflow<br>Rate | Velocity <-----<br>m/s | Metal <-----<br>Width | Height | <----- Airflow<br>Width | Height |
|-----|-------|-----------------|------------------------|-----------------------|--------|-------------------------|--------|
|     |       | L/s             | m/s                    | mm                    | mm     | mm                      | mm     |
| 1   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 2   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 3   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 4   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 5   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 6   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 7   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 8   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 9   | REC   | 1545.1          | 7.7                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 10  | REC   | 1254.0          | 6.3                    | 500.0                 | 400.0  | 500.0                   | 400.0  |
| 11  | REC   | 978.9           | 5.6                    | 500.0                 | 350.0  | 500.0                   | 350.0  |
| 12  | REC   | 978.9           | 5.6                    | 500.0                 | 350.0  | 500.0                   | 350.0  |
| 13  | REC   | 652.6           | 6.2                    | 350.0                 | 300.0  | 350.0                   | 300.0  |
| 14  | REC   | 652.6           | 6.2                    | 350.0                 | 300.0  | 350.0                   | 300.0  |
| 15  | REC   | 326.3           | 5.2                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 16  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 17  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 18  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 19  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 20  | REC   | 326.3           | 5.2                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 21  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 22  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 23  | REC   | 326.3           | 5.2                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 24  | REC   | 326.3           | 5.2                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 25  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 26  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 27  | REC   | 275.1           | 4.4                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 28  | REC   | 112.0           | 3.7                    | 200.0                 | 150.0  | 200.0                   | 150.0  |
| 29  | REC   | 163.2           | 4.1                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 30  | REC   | 291.0           | 4.7                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 31  | REC   | 291.0           | 4.7                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 32  | REC   | 291.0           | 4.7                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 33  | REC   | 291.0           | 4.7                    | 250.0                 | 250.0  | 250.0                   | 250.0  |
| 34  | REC   | 145.5           | 3.6                    | 200.0                 | 200.0  | 200.0                   | 200.0  |
| 35  | REC   | 145.5           | 3.6                    | 200.0                 | 200.0  | 200.0                   | 200.0  |

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## PRESSURE LOSS DATA

System name : 0201I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 35.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0012        |
| 2   | 0.0095      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0120        |
| 3   | 0.0095      | 0.0000                    | 0.0000                | 0.0038       | 0.0000        | 0.0000          | 0.0133        |
| 4   | 0.0095      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0110        |
| 5   | 0.0095      | 0.0000                    | 0.0000                | 0.0057       | 0.0000        | 0.0000          | 0.0152        |
| 6   | 0.0095      | 0.0000                    | 0.0000                | 0.0041       | 0.0000        | 0.0000          | 0.0136        |
| 7   | 0.0095      | 0.0000                    | 0.0000                | 0.0136       | 0.0000        | 0.0000          | 0.0232        |
| 8   | 0.0095      | 0.0000                    | 0.0000                | 0.0057       | 0.0240        | 0.0000          | 0.0392        |
| 9   | 0.0095      | 0.0000                    | 0.0000                | 0.0035       | 0.0000        | 0.0000          | 0.0130        |
| 10  | -0.0005     | 0.0000                    | 0.0000                | 0.0050       | 0.0150        | 0.0149          | 0.0344        |
| 11  | -0.0004     | 0.0000                    | 0.0000                | 0.0035       | 0.0000        | 0.0000          | 0.0031        |
| 12  | 0.0052      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0061        |
| 13  | -0.0005     | 0.0000                    | 0.0000                | 0.0056       | 0.0000        | 0.0000          | 0.0052        |
| 14  | 0.0060      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0091        |
| 15  | 0.0069      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0088        |
| 16  | 0.0048      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0067        |
| 17  | 0.0031      | 0.5000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.5041        |
| 18  | 0.0048      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0067        |
| 19  | 0.0031      | 0.5000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.5041        |
| 20  | 0.0069      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0041          | 0.0129        |
| 21  | 0.0048      | 0.5000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.5067        |
| 22  | 0.0048      | 0.5000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.5067        |
| 23  | 0.0095      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0076          | 0.0202        |
| 24  | 0.0046      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0070        |
| 25  | 0.0048      | 0.5000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.5067        |
| 26  | 0.0048      | 0.5000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.5067        |
| 27  | 0.0097      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0275          | 0.0378        |
| 28  | 0.0036      | 0.5000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.5054        |
| 29  | 0.0034      | 0.5000                    | 0.0000                | 0.0018       | 0.0000        | 0.0002          | 0.5054        |
| 30  | 0.0151      | 0.0000                    | 0.0000                | 0.0118       | 0.0300        | 0.0000          | 0.0569        |
| 31  | 0.0038      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0054        |
| 32  | 0.0038      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0053        |
| 33  | 0.0038      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0050        |
| 34  | 0.0038      | 0.5000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.5049        |
| 35  | 0.0038      | 0.5000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.5049        |

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## C-VALUE DATA

System name : 0201I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 35.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0338 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2599  | 0.0000            | 0.0000        | 0.0677 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2599  | 0.0000            | 0.0000        | 0.1039 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2599  | 0.0000            | 0.0000        | 0.0409 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2599  | 0.0000            | 0.0000        | 0.1554 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2599  | 0.0000            | 0.0000        | 0.1106 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2599  | 0.0000            | 0.0000        | 0.3722 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2599  | 0.0000            | 0.0000        | 0.1559 | 0.6546 | 0.0000  |
| 9   | 8   | 0.2599  | 0.0000            | 0.0000        | 0.0959 | 0.0000 | 0.0000  |
| 10  | 9   | -0.0132 | 0.0000            | 0.0000        | 0.2080 | 0.6211 | 0.6154  |
| 11  | 10  | -0.0174 | 0.0000            | 0.0000        | 0.1839 | 0.0000 | 0.0000  |
| 12  | 11  | 0.2691  | 0.0000            | 0.0000        | 0.0506 | 0.0000 | 0.0000  |
| 13  | 12  | -0.0246 | 0.0000            | 0.0000        | 0.2377 | 0.0000 | 0.0000  |
| 14  | 13  | 0.2546  | 0.0000            | 0.0000        | 0.1304 | 0.0000 | 0.0000  |
| 15  | 14  | 0.2905  | 0.0000            | 0.0000        | 0.1165 | 0.0000 | 0.0000  |
| 16  | 15  | 0.2860  | 0.0000            | 0.0000        | 0.1874 | 0.0000 | 0.0000  |
| 17  | 16  | 0.3057  | 48.9255           | 0.0000        | 0.0914 | 0.0000 | 0.0000  |
| 18  | 15  | 0.2860  | 0.0000            | 0.0000        | 0.1874 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3057  | 48.9255           | 0.0000        | 0.0914 | 0.0000 | 0.0000  |
| 20  | 14  | 0.2905  | 0.0000            | 0.0000        | 0.1165 | 0.0000 | 0.2423  |
| 21  | 20  | 0.2860  | 48.9255           | 0.0000        | 0.1874 | 0.0000 | 0.0000  |
| 22  | 20  | 0.2860  | 48.9255           | 0.0000        | 0.1874 | 0.0000 | 0.0000  |
| 23  | 12  | 0.4935  | 0.0000            | 0.0000        | 0.1852 | 0.0000 | 0.4538  |
| 24  | 23  | 0.2749  | 0.0000            | 0.0000        | 0.1443 | 0.0000 | 0.0000  |
| 25  | 24  | 0.2860  | 48.9255           | 0.0000        | 0.1874 | 0.0000 | 0.0000  |
| 26  | 24  | 0.2860  | 48.9255           | 0.0000        | 0.1874 | 0.0000 | 0.0000  |
| 27  | 10  | 0.4005  | 0.0000            | 0.0000        | 0.0500 | 0.0000 | 2.3086  |
| 28  | 27  | 0.3000  | 58.3977           | 0.0000        | 0.2153 | 0.0000 | 0.0000  |
| 29  | 27  | 0.2860  | 48.9255           | 0.0000        | 0.1765 | 0.0000 | 0.0202  |
| 30  | 9   | 0.4121  | 0.0000            | 0.0000        | 0.8824 | 2.2528 | 0.0000  |
| 31  | 30  | 0.2838  | 0.0000            | 0.0000        | 0.1253 | 0.0000 | 0.0000  |
| 32  | 31  | 0.2838  | 0.0000            | 0.0000        | 0.1156 | 0.0000 | 0.0000  |
| 33  | 32  | 0.2838  | 0.0000            | 0.0000        | 0.0921 | 0.0000 | 0.0000  |
| 34  | 33  | 0.2860  | 61.5153           | 0.0000        | 0.1389 | 0.0000 | 0.0000  |
| 35  | 33  | 0.2860  | 61.5153           | 0.0000        | 0.1389 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0201I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 1545.1 L/s |
| Fan Static Pressure .....                     | :           | 0.6580 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.7195 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.7195 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.7195 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.6580 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.7195 kPa |
| Total Downstream Losses ..... | : | 0.7195 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0201I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 35.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.7195            | 0.6828             | 7.7      | 0.0367               | 25.8408 E+04       |
| 2   | 0.7182            | 0.6815             | 7.7      | 0.0367               | 25.8408 E+04       |
| 3   | 0.7062            | 0.6695             | 7.7      | 0.0367               | 25.8408 E+04       |
| 4   | 0.6929            | 0.6562             | 7.7      | 0.0367               | 25.8408 E+04       |
| 5   | 0.6818            | 0.6452             | 7.7      | 0.0367               | 25.8408 E+04       |
| 6   | 0.6666            | 0.6300             | 7.7      | 0.0367               | 25.8408 E+04       |
| 7   | 0.6530            | 0.6164             | 7.7      | 0.0367               | 25.8408 E+04       |
| 8   | 0.6299            | 0.5932             | 7.7      | 0.0367               | 25.8408 E+04       |
| 9   | 0.5906            | 0.5540             | 7.7      | 0.0367               | 25.8408 E+04       |
| 10  | 0.5627            | 0.5386             | 6.3      | 0.0242               | 20.9738 E+04       |
| 11  | 0.5432            | 0.5239             | 5.6      | 0.0192               | 17.4604 E+04       |
| 12  | 0.5401            | 0.5208             | 5.6      | 0.0192               | 17.4604 E+04       |
| 13  | 0.5339            | 0.5102             | 6.2      | 0.0237               | 15.0759 E+04       |
| 14  | 0.5287            | 0.5050             | 6.2      | 0.0237               | 15.0759 E+04       |
| 15  | 0.5196            | 0.5029             | 5.2      | 0.0167               | 9.7775 E+04        |
| 16  | 0.5108            | 0.5005             | 4.1      | 0.0102               | 6.1110 E+04        |
| 17  | 0.5041            | 0.4938             | 4.1      | 0.0102               | 6.1110 E+04        |
| 18  | 0.5108            | 0.5005             | 4.1      | 0.0102               | 6.1110 E+04        |
| 19  | 0.5041            | 0.4938             | 4.1      | 0.0102               | 6.1110 E+04        |
| 20  | 0.5155            | 0.4988             | 5.2      | 0.0167               | 9.7775 E+04        |
| 21  | 0.5067            | 0.4965             | 4.1      | 0.0102               | 6.1110 E+04        |
| 22  | 0.5067            | 0.4965             | 4.1      | 0.0102               | 6.1110 E+04        |
| 23  | 0.5263            | 0.5096             | 5.2      | 0.0167               | 9.7775 E+04        |
| 24  | 0.5137            | 0.4970             | 5.2      | 0.0167               | 9.7775 E+04        |
| 25  | 0.5067            | 0.4965             | 4.1      | 0.0102               | 6.1110 E+04        |
| 26  | 0.5067            | 0.4965             | 4.1      | 0.0102               | 6.1110 E+04        |
| 27  | 0.5157            | 0.5038             | 4.4      | 0.0119               | 8.2448 E+04        |
| 28  | 0.5054            | 0.4969             | 3.7      | 0.0086               | 4.8316 E+04        |
| 29  | 0.5052            | 0.4950             | 4.1      | 0.0102               | 6.1110 E+04        |
| 30  | 0.5776            | 0.5643             | 4.7      | 0.0133               | 8.7198 E+04        |
| 31  | 0.5207            | 0.5074             | 4.7      | 0.0133               | 8.7198 E+04        |
| 32  | 0.5153            | 0.5019             | 4.7      | 0.0133               | 8.7198 E+04        |
| 33  | 0.5099            | 0.4966             | 4.7      | 0.0133               | 8.7198 E+04        |
| 34  | 0.5049            | 0.4968             | 3.6      | 0.0081               | 5.4499 E+04        |
| 35  | 0.5049            | 0.4968             | 3.6      | 0.0081               | 5.4499 E+04        |

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## SIZE DATA

System name : 0201R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> | <-----> | <----- Airflow -----> | <-----> |
|-----|-------|-----------------|----------|---------------------|---------|-----------------------|---------|
|     |       |                 |          | Width               | Height  | Width                 | Height  |
|     |       | L/s             | m/s      | mm                  | mm      | mm                    | mm      |
| 1   | REC   | 1390.2          | 7.0      | 500.0               | 400.0   | 500.0                 | 400.0   |
| 2   | REC   | 1390.2          | 7.0      | 500.0               | 400.0   | 500.0                 | 400.0   |
| 3   | REC   | 1390.2          | 7.0      | 500.0               | 400.0   | 500.0                 | 400.0   |
| 4   | REC   | 1390.2          | 7.0      | 500.0               | 400.0   | 500.0                 | 400.0   |
| 5   | REC   | 1390.2          | 7.0      | 500.0               | 400.0   | 500.0                 | 400.0   |
| 6   | REC   | 1390.2          | 7.0      | 500.0               | 400.0   | 500.0                 | 400.0   |
| 7   | REC   | 1390.2          | 7.0      | 500.0               | 400.0   | 500.0                 | 400.0   |
| 8   | REC   | 1390.2          | 7.0      | 500.0               | 400.0   | 500.0                 | 400.0   |
| 9   | REC   | 1390.2          | 7.0      | 500.0               | 400.0   | 500.0                 | 400.0   |
| 10  | REC   | 1133.2          | 6.3      | 450.0               | 400.0   | 450.0                 | 400.0   |
| 11  | REC   | 1034.2          | 5.7      | 450.0               | 400.0   | 450.0                 | 400.0   |
| 12  | REC   | 1009.2          | 5.6      | 450.0               | 400.0   | 450.0                 | 400.0   |
| 13  | REC   | 841.0           | 5.3      | 450.0               | 350.0   | 450.0                 | 350.0   |
| 14  | REC   | 168.2           | 4.2      | 200.0               | 200.0   | 200.0                 | 200.0   |
| 15  | REC   | 168.2           | 4.2      | 200.0               | 200.0   | 200.0                 | 200.0   |
| 16  | REC   | 672.8           | 5.5      | 350.0               | 350.0   | 350.0                 | 350.0   |
| 17  | REC   | 504.6           | 4.8      | 350.0               | 300.0   | 350.0                 | 300.0   |
| 18  | REC   | 336.4           | 4.5      | 300.0               | 250.0   | 300.0                 | 250.0   |
| 19  | REC   | 168.2           | 4.2      | 200.0               | 200.0   | 200.0                 | 200.0   |
| 20  | REC   | 168.2           | 4.2      | 200.0               | 200.0   | 200.0                 | 200.0   |
| 21  | REC   | 168.2           | 4.2      | 200.0               | 200.0   | 200.0                 | 200.0   |
| 22  | REC   | 168.2           | 4.2      | 200.0               | 200.0   | 200.0                 | 200.0   |
| 23  | REC   | 168.2           | 4.2      | 200.0               | 200.0   | 200.0                 | 200.0   |
| 24  | REC   | 25.0            | 1.1      | 150.0               | 150.0   | 150.0                 | 150.0   |
| 25  | REC   | 25.0            | 1.1      | 150.0               | 150.0   | 150.0                 | 150.0   |
| 26  | REC   | 99.0            | 4.4      | 150.0               | 150.0   | 150.0                 | 150.0   |
| 27  | REC   | 99.0            | 4.4      | 150.0               | 150.0   | 150.0                 | 150.0   |
| 28  | REC   | 257.0           | 4.1      | 250.0               | 250.0   | 250.0                 | 250.0   |
| 29  | REC   | 257.0           | 4.1      | 250.0               | 250.0   | 250.0                 | 250.0   |
| 30  | REC   | 257.0           | 4.1      | 250.0               | 250.0   | 250.0                 | 250.0   |
| 31  | REC   | 128.5           | 3.2      | 200.0               | 200.0   | 200.0                 | 200.0   |
| 32  | REC   | 128.5           | 3.2      | 200.0               | 200.0   | 200.0                 | 200.0   |

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## PRESSURE LOSS DATA

System name : 0201R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0010        |
| 2   | 0.0077      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0097        |
| 3   | 0.0077      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0108        |
| 4   | 0.0077      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0089        |
| 5   | 0.0077      | 0.0000                    | 0.0000                | 0.0047       | 0.0000        | 0.0000          | 0.0124        |
| 6   | 0.0077      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0110        |
| 7   | 0.0077      | 0.0000                    | 0.0000                | 0.0112       | 0.0000        | 0.0000          | 0.0189        |
| 8   | 0.0077      | 0.0000                    | 0.0000                | 0.0046       | 0.0190        | 0.0000          | 0.0313        |
| 9   | 0.0077      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0088        |
| 10  | 0.0075      | 0.0000                    | 0.0000                | 0.0037       | 0.0260        | 0.0000          | 0.0372        |
| 11  | 0.0034      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0055        |
| 12  | 0.0008      | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0000          | 0.0035        |
| 13  | 0.0045      | 0.0000                    | 0.0000                | 0.0040       | 0.0000        | 0.0000          | 0.0086        |
| 14  | 0.0040      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0224          | 0.0279        |
| 15  | 0.0033      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0178        |
| 16  | 0.0025      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0047        |
| 17  | 0.0060      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0091        |
| 18  | 0.0058      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0090        |
| 19  | 0.0027      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0056          | 0.0228        |
| 20  | 0.0027      | 0.0140                    | 0.0000                | 0.0061       | 0.0000        | 0.0000          | 0.0228        |
| 21  | -0.0015     | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0187          | 0.0318        |
| 22  | -0.0091     | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0354          | 0.0410        |
| 23  | -0.0141     | 0.0140                    | 0.0000                | 0.0015       | 0.0000        | 0.0529          | 0.0543        |
| 24  | -0.0168     | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0567          | 0.0403        |
| 25  | 0.0003      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 26  | -0.0175     | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0570          | 0.0415        |
| 27  | 0.0038      | 0.0170                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0218        |
| 28  | -0.0163     | 0.0000                    | 0.0000                | 0.0079       | 0.0360        | 0.0389          | 0.0664        |
| 29  | 0.0030      | 0.0000                    | 0.0000                | 0.0032       | 0.0000        | 0.0000          | 0.0062        |
| 30  | 0.0030      | 0.0000                    | 0.0000                | 0.0038       | 0.0000        | 0.0000          | 0.0068        |
| 31  | 0.0019      | 0.0170                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0211        |
| 32  | 0.0019      | 0.0170                    | 0.0000                | 0.0013       | 0.0000        | 0.0009          | 0.0211        |

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## C-VALUE DATA

System name : 0201R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0343 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2599  | 0.0000            | 0.0000        | 0.0685 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2599  | 0.0000            | 0.0000        | 0.1052 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2599  | 0.0000            | 0.0000        | 0.0414 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2599  | 0.0000            | 0.0000        | 0.1574 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2599  | 0.0000            | 0.0000        | 0.1120 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2599  | 0.0000            | 0.0000        | 0.3770 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2599  | 0.0000            | 0.0000        | 0.1562 | 0.6401 | 0.0000  |
| 9   | 8   | 0.2599  | 0.0000            | 0.0000        | 0.0366 | 0.0000 | 0.0000  |
| 10  | 9   | 0.2534  | 0.0000            | 0.0000        | 0.1528 | 1.0679 | 0.0000  |
| 11  | 10  | 0.1398  | 0.0000            | 0.0000        | 0.1050 | 0.0000 | 0.0000  |
| 12  | 11  | 0.0387  | 0.0000            | 0.0000        | 0.1398 | 0.0000 | 0.0000  |
| 13  | 12  | 0.2333  | 0.0000            | 0.0000        | 0.2311 | 0.0000 | 0.0000  |
| 14  | 13  | 0.2300  | 0.0000            | 0.0000        | 0.1347 | 0.0000 | 2.0606  |
| 15  | 14  | 0.3041  | 1.2889            | 0.0000        | 0.0489 | 0.0000 | 0.0000  |
| 16  | 13  | 0.1411  | 0.0000            | 0.0000        | 0.1228 | 0.0000 | 0.0000  |
| 17  | 16  | 0.3250  | 0.0000            | 0.0000        | 0.2191 | 0.0000 | 0.0000  |
| 18  | 17  | 0.4067  | 0.0000            | 0.0000        | 0.2642 | 0.0000 | 0.0000  |
| 19  | 18  | 0.2193  | 1.2889            | 0.0000        | 0.0489 | 0.0000 | 0.5114  |
| 20  | 18  | 0.2193  | 1.2889            | 0.0000        | 0.5603 | 0.0000 | 0.0000  |
| 21  | 17  | -0.1067 | 1.2889            | 0.0000        | 0.0628 | 0.0000 | 1.7181  |
| 22  | 16  | -0.4900 | 1.2889            | 0.0000        | 0.0628 | 0.0000 | 3.2553  |
| 23  | 12  | -0.7300 | 1.2889            | 0.0000        | 0.1347 | 0.0000 | 4.8697  |
| 24  | 11  | -0.8300 | 0.0000            | 0.0000        | 0.6406 | 0.0000 | 74.7239 |
| 25  | 24  | 0.4080  | 22.4158           | 0.0000        | 0.1463 | 0.0000 | 0.0000  |
| 26  | 10  | -0.7200 | 0.0000            | 0.0000        | 0.1717 | 0.0000 | 4.7919  |
| 27  | 26  | 0.3177  | 1.4294            | 0.0000        | 0.0839 | 0.0000 | 0.0000  |
| 28  | 9   | -0.5503 | 0.0000            | 0.0000        | 0.7597 | 3.4659 | 3.7431  |
| 29  | 28  | 0.2923  | 0.0000            | 0.0000        | 0.3066 | 0.0000 | 0.0000  |
| 30  | 29  | 0.2923  | 0.0000            | 0.0000        | 0.3617 | 0.0000 | 0.0000  |
| 31  | 30  | 0.1852  | 2.6815            | 0.0000        | 0.3381 | 0.0000 | 0.0000  |
| 32  | 30  | 0.1852  | 2.6815            | 0.0000        | 0.1991 | 0.0000 | 0.1390  |

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## FAN DATA PRINTOUT

System name : 0201R 20-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 1390.2 L/s  |
| Fan Static Pressure .....                     | :           | 0.1521 kPa  |
| <hr/>   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.2135 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.2135 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| <hr/>   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| <hr/>   |             |             |
| Total Pressure .....                          | -0.2135 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.2750 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.2135 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.2135 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0201R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.2135           | -0.2432            | 7.0      | 0.0297               | 23.2509 E+04       |
| 2   | -0.2125           | -0.2422            | 7.0      | 0.0297               | 23.2509 E+04       |
| 3   | -0.2028           | -0.2325            | 7.0      | 0.0297               | 23.2509 E+04       |
| 4   | -0.1919           | -0.2216            | 7.0      | 0.0297               | 23.2509 E+04       |
| 5   | -0.1830           | -0.2127            | 7.0      | 0.0297               | 23.2509 E+04       |
| 6   | -0.1706           | -0.2003            | 7.0      | 0.0297               | 23.2509 E+04       |
| 7   | -0.1596           | -0.1892            | 7.0      | 0.0297               | 23.2509 E+04       |
| 8   | -0.1407           | -0.1703            | 7.0      | 0.0297               | 23.2509 E+04       |
| 9   | -0.1093           | -0.1390            | 7.0      | 0.0297               | 23.2509 E+04       |
| 10  | -0.1005           | -0.1249            | 6.3      | 0.0243               | 20.0002 E+04       |
| 11  | -0.0633           | -0.0836            | 5.7      | 0.0203               | 18.2529 E+04       |
| 12  | -0.0577           | -0.0771            | 5.6      | 0.0193               | 17.8117 E+04       |
| 13  | -0.0543           | -0.0718            | 5.3      | 0.0175               | 15.8436 E+04       |
| 14  | -0.0233           | -0.0342            | 4.2      | 0.0109               | 6.3001 E+04        |
| 15  | -0.0178           | -0.0287            | 4.2      | 0.0109               | 6.3001 E+04        |
| 16  | -0.0457           | -0.0642            | 5.5      | 0.0185               | 14.4003 E+04       |
| 17  | -0.0410           | -0.0551            | 4.8      | 0.0142               | 11.6569 E+04       |
| 18  | -0.0318           | -0.0442            | 4.5      | 0.0124               | 9.1924 E+04        |
| 19  | -0.0172           | -0.0281            | 4.2      | 0.0109               | 6.3001 E+04        |
| 20  | -0.0228           | -0.0337            | 4.2      | 0.0109               | 6.3001 E+04        |
| 21  | -0.0132           | -0.0240            | 4.2      | 0.0109               | 6.3001 E+04        |
| 22  | -0.0056           | -0.0165            | 4.2      | 0.0109               | 6.3001 E+04        |
| 23  | -0.0014           | -0.0122            | 4.2      | 0.0109               | 6.3001 E+04        |
| 24  | -0.0011           | -0.0018            | 1.1      | 0.0008               | 1.2485 E+04        |
| 25  | -0.0174           | -0.0182            | 1.1      | 0.0008               | 1.2485 E+04        |
| 26  | -0.0063           | -0.0182            | 4.4      | 0.0119               | 4.9442 E+04        |
| 27  | -0.0218           | -0.0337            | 4.4      | 0.0119               | 4.9442 E+04        |
| 28  | -0.0616           | -0.0720            | 4.1      | 0.0104               | 7.7010 E+04        |
| 29  | -0.0341           | -0.0445            | 4.1      | 0.0104               | 7.7010 E+04        |
| 30  | -0.0279           | -0.0382            | 4.1      | 0.0104               | 7.7010 E+04        |
| 31  | -0.0211           | -0.0274            | 3.2      | 0.0063               | 4.8131 E+04        |
| 32  | -0.0202           | -0.0265            | 3.2      | 0.0063               | 4.8131 E+04        |

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## SIZE DATA

System name : 0202I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 2   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 3   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 4   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 5   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 6   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 7   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 8   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 9   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 10  | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 11  | REC   | 375.0           | 5.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 12  | REC   | 109.0           | 3.6      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 13  | REC   | 109.0           | 3.6      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 14  | REC   | 266.0           | 4.3      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 15  | REC   | 133.0           | 3.3      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 16  | REC   | 133.0           | 3.3      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 17  | REC   | 133.0           | 3.3      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 18  | REC   | 73.5            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## PRESSURE LOSS DATA

System name : 0202I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0014        |
| 2   | 0.0060      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0087        |
| 3   | 0.0060      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0088        |
| 4   | 0.0060      | 0.0000                    | 0.0000                | 0.0113       | 0.0000        | 0.0000          | 0.0172        |
| 5   | 0.0060      | 0.0000                    | 0.0000                | 0.0039       | 0.0000        | 0.0000          | 0.0099        |
| 6   | 0.0060      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0081        |
| 7   | 0.0060      | 0.0000                    | 0.0000                | 0.0153       | 0.0000        | 0.0000          | 0.0213        |
| 8   | 0.0060      | 0.0000                    | 0.0000                | 0.0050       | 0.0280        | 0.0000          | 0.0389        |
| 9   | 0.0060      | 0.0000                    | 0.0000                | 0.0093       | 0.0000        | 0.0000          | 0.0152        |
| 10  | 0.0060      | 0.0000                    | 0.0000                | 0.0065       | 0.0000        | 0.0000          | 0.0125        |
| 11  | -0.0000     | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0016        |
| 12  | 0.0046      | 0.0000                    | 0.0000                | 0.0045       | 0.0250        | 0.0000          | 0.0341        |
| 13  | 0.0028      | 0.0170                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0216        |
| 14  | 0.0041      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0169          | 0.0220        |
| 15  | 0.0006      | 0.0250                    | 0.0000                | 0.0016       | 0.0000        | 0.0066          | 0.0338        |
| 16  | 0.0052      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0058        |
| 17  | 0.0022      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0280        |
| 18  | 0.0096      | 0.0220                    | 0.0000                | 0.0009       | 0.0000        | 0.0248          | 0.0574        |

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## C-VALUE DATA

System name : 0202I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 18.

```

-----
Sec    Frm      Fit      Equip      Equip      Fric      Other      Balance
      Terminal  Thru
-----
  1      0      0.0000    0.0000    0.0000    0.0634    0.0000    0.0000
  2      1      0.2714    0.0000    0.0000    0.1267    0.0000    0.0000
  3      2      0.2714    0.0000    0.0000    0.1270    0.0000    0.0000
  4      3      0.2714    0.0000    0.0000    0.5131    0.0000    0.0000
  5      4      0.2714    0.0000    0.0000    0.1795    0.0000    0.0000
  6      5      0.2714    0.0000    0.0000    0.0951    0.0000    0.0000
  7      6      0.2714    0.0000    0.0000    0.6970    0.0000    0.0000
  8      7      0.2714    0.0000    0.0000    0.2264    1.2746    0.0000
  9      8      0.2714    0.0000    0.0000    0.4214    0.0000    0.0000
 10     9      0.2714    0.0000    0.0000    0.2968    0.0000    0.0000
 11    10     -0.0022    0.0000    0.0000    0.1064    0.0000    0.0000
 12    11      0.3000    0.0000    0.0000    0.5571    3.0828    0.0000
 13    12      0.3507    2.0963    0.0000    0.2221    0.0000    0.0000
 14    11      0.2667    0.0000    0.0000    0.0857    0.0000    1.5230
 15    14      0.0528    3.6811    0.0000    0.2307    0.0000    0.9749
 16    14      0.4640    0.0000    0.0000    0.0888    0.0000    0.0000
 17    16      0.3173    3.6811    0.0000    0.1258    0.0000    0.0000
 18    10      0.4365    3.3561    0.0000    0.1406    0.0000    3.7900
-----
*****

```



## FAN DATA PRINTOUT

System name : 0202I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 448.5 L/s  |
| Fan Static Pressure .....                     | :           | 0.1379 kPa |
| <hr/>   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.1994 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.1994 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| <hr/>   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| <hr/>   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.1994 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.1379 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.1994 kPa |
| Total Downstream Losses ..... | : | 0.1994 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0202I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.1994            | 0.1774             | 6.0      | 0.0220               | 12.2556 E+04       |
| 2   | 0.1980            | 0.1760             | 6.0      | 0.0220               | 12.2556 E+04       |
| 3   | 0.1892            | 0.1672             | 6.0      | 0.0220               | 12.2556 E+04       |
| 4   | 0.1805            | 0.1585             | 6.0      | 0.0220               | 12.2556 E+04       |
| 5   | 0.1632            | 0.1413             | 6.0      | 0.0220               | 12.2556 E+04       |
| 6   | 0.1533            | 0.1314             | 6.0      | 0.0220               | 12.2556 E+04       |
| 7   | 0.1453            | 0.1233             | 6.0      | 0.0220               | 12.2556 E+04       |
| 8   | 0.1240            | 0.1020             | 6.0      | 0.0220               | 12.2556 E+04       |
| 9   | 0.0851            | 0.0631             | 6.0      | 0.0220               | 12.2556 E+04       |
| 10  | 0.0698            | 0.0479             | 6.0      | 0.0220               | 12.2556 E+04       |
| 11  | 0.0574            | 0.0420             | 5.0      | 0.0154               | 10.2471 E+04       |
| 12  | 0.0558            | 0.0477             | 3.6      | 0.0081               | 4.7022 E+04        |
| 13  | 0.0216            | 0.0135             | 3.6      | 0.0081               | 4.7022 E+04        |
| 14  | 0.0388            | 0.0277             | 4.3      | 0.0111               | 7.9707 E+04        |
| 15  | 0.0272            | 0.0204             | 3.3      | 0.0068               | 4.9817 E+04        |
| 16  | 0.0338            | 0.0270             | 3.3      | 0.0068               | 4.9817 E+04        |
| 17  | 0.0280            | 0.0212             | 3.3      | 0.0068               | 4.9817 E+04        |
| 18  | 0.0325            | 0.0260             | 3.3      | 0.0066               | 3.6707 E+04        |

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## SIZE DATA

System name : 0202R

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 24.

| Sec | Shape | Airflow<br>Rate | Velocity <-----> | Metal<br>Width | Height | Airflow <-----> | Height |
|-----|-------|-----------------|------------------|----------------|--------|-----------------|--------|
|     |       | L/s             | m/s              | mm             | mm     | mm              | mm     |
| 1   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 2   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 3   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 4   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 5   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 6   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 7   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 8   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 9   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 10  | REC   | 341.5           | 4.6              | 300.0          | 250.0  | 300.0           | 250.0  |
| 11  | REC   | 341.5           | 4.6              | 300.0          | 250.0  | 300.0           | 250.0  |
| 12  | REC   | 316.5           | 4.2              | 300.0          | 250.0  | 300.0           | 250.0  |
| 13  | REC   | 241.7           | 4.0              | 300.0          | 200.0  | 300.0           | 200.0  |
| 14  | REC   | 166.8           | 4.2              | 200.0          | 200.0  | 200.0           | 200.0  |
| 15  | REC   | 92.0            | 3.1              | 200.0          | 150.0  | 200.0           | 150.0  |
| 16  | REC   | 92.0            | 3.1              | 200.0          | 150.0  | 200.0           | 150.0  |
| 17  | REC   | 74.8            | 3.3              | 150.0          | 150.0  | 150.0           | 150.0  |
| 18  | REC   | 74.8            | 3.3              | 150.0          | 150.0  | 150.0           | 150.0  |
| 19  | REC   | 74.8            | 3.3              | 150.0          | 150.0  | 150.0           | 150.0  |
| 20  | REC   | 74.8            | 3.3              | 150.0          | 150.0  | 150.0           | 150.0  |
| 21  | REC   | 25.0            | 1.1              | 150.0          | 150.0  | 150.0           | 150.0  |
| 22  | REC   | 25.0            | 1.1              | 150.0          | 150.0  | 150.0           | 150.0  |
| 23  | REC   | 62.0            | 2.8              | 150.0          | 150.0  | 150.0           | 150.0  |
| 24  | REC   | 62.0            | 2.8              | 150.0          | 150.0  | 150.0           | 150.0  |

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## PRESSURE LOSS DATA

System name : 0202R

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 24.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0011        |
| 2   | 0.0050      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0073        |
| 3   | 0.0050      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0073        |
| 4   | 0.0050      | 0.0000                    | 0.0000                | 0.0093       | 0.0000        | 0.0000          | 0.0143        |
| 5   | 0.0050      | 0.0000                    | 0.0000                | 0.0032       | 0.0000        | 0.0000          | 0.0083        |
| 6   | 0.0050      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0067        |
| 7   | 0.0050      | 0.0000                    | 0.0000                | 0.0126       | 0.0000        | 0.0000          | 0.0176        |
| 8   | 0.0050      | 0.0000                    | 0.0000                | 0.0041       | 0.0340        | 0.0000          | 0.0431        |
| 9   | 0.0050      | 0.0000                    | 0.0000                | 0.0063       | 0.0000        | 0.0000          | 0.0113        |
| 10  | 0.0039      | 0.0000                    | 0.0000                | 0.0041       | 0.0000        | 0.0000          | 0.0080        |
| 11  | 0.0038      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0052        |
| 12  | 0.0015      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0029        |
| 13  | 0.0034      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0067        |
| 14  | 0.0018      | 0.0000                    | 0.0000                | 0.0053       | 0.0000        | 0.0000          | 0.0070        |
| 15  | 0.0053      | 0.0000                    | 0.0000                | 0.0027       | 0.0250        | 0.0000          | 0.0330        |
| 16  | 0.0021      | 0.0140                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0170        |
| 17  | 0.0044      | 0.0140                    | 0.0000                | 0.0013       | 0.0000        | 0.0303          | 0.0499        |
| 18  | 0.0023      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0366          | 0.0394        |
| 19  | 0.0023      | 0.0140                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0175        |
| 20  | -0.0059     | 0.0140                    | 0.0000                | 0.0011       | 0.0000        | 0.0545          | 0.0637        |
| 21  | -0.0106     | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0596          | 0.0492        |
| 22  | 0.0003      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 23  | -0.0133     | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0733          | 0.0609        |
| 24  | 0.0016      | 0.0170                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0188        |

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## C-VALUE DATA

System name : 0202R

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 24.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0645 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2817  | 0.0000            | 0.0000        | 0.1289 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2817  | 0.0000            | 0.0000        | 0.1291 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2817  | 0.0000            | 0.0000        | 0.5219 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2817  | 0.0000            | 0.0000        | 0.1825 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2817  | 0.0000            | 0.0000        | 0.0968 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2817  | 0.0000            | 0.0000        | 0.7090 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2817  | 0.0000            | 0.0000        | 0.2303 | 1.9123 | 0.0000  |
| 9   | 8   | 0.2817  | 0.0000            | 0.0000        | 0.3528 | 0.0000 | 0.0000  |
| 10  | 9   | 0.2190  | 0.0000            | 0.0000        | 0.3218 | 0.0000 | 0.0000  |
| 11  | 10  | 0.2963  | 0.0000            | 0.0000        | 0.1105 | 0.0000 | 0.0000  |
| 12  | 11  | 0.1171  | 0.0000            | 0.0000        | 0.1289 | 0.0000 | 0.0000  |
| 13  | 12  | 0.3101  | 0.0000            | 0.0000        | 0.3310 | 0.0000 | 0.0000  |
| 14  | 13  | 0.1767  | 0.0000            | 0.0000        | 0.4922 | 0.0000 | 0.0000  |
| 15  | 14  | 0.4940  | 0.0000            | 0.0000        | 0.4658 | 4.3274 | 0.0000  |
| 16  | 15  | 0.3594  | 2.4233            | 0.0000        | 0.1554 | 0.0000 | 0.0000  |
| 17  | 14  | 0.4111  | 2.0604            | 0.0000        | 0.1856 | 0.0000 | 4.4579  |
| 18  | 13  | 0.2300  | 0.0000            | 0.0000        | 0.0854 | 0.0000 | 5.3828  |
| 19  | 18  | 0.3320  | 2.0604            | 0.0000        | 0.1856 | 0.0000 | 0.0000  |
| 20  | 12  | -0.5415 | 2.0604            | 0.0000        | 0.1627 | 0.0000 | 8.0170  |
| 21  | 11  | -0.8300 | 0.0000            | 0.0000        | 0.2046 | 0.0000 | 78.5612 |
| 22  | 21  | 0.4080  | 22.4158           | 0.0000        | 0.1066 | 0.0000 | 0.0000  |
| 23  | 9   | -0.7495 | 0.0000            | 0.0000        | 0.1907 | 0.0000 | 15.7214 |
| 24  | 23  | 0.3428  | 3.6446            | 0.0000        | 0.0505 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0202R 24-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 403.5 L/s   |
| Fan Static Pressure .....                     | :           | 0.1353 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1968 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1968 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1968 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.2582 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.1968 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1968 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0202R

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 24.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1968           | -0.2145            | 5.4      | 0.0178               | 11.0256 E+04       |
| 2   | -0.1956           | -0.2134            | 5.4      | 0.0178               | 11.0256 E+04       |
| 3   | -0.1883           | -0.2061            | 5.4      | 0.0178               | 11.0256 E+04       |
| 4   | -0.1810           | -0.1988            | 5.4      | 0.0178               | 11.0256 E+04       |
| 5   | -0.1667           | -0.1845            | 5.4      | 0.0178               | 11.0256 E+04       |
| 6   | -0.1585           | -0.1762            | 5.4      | 0.0178               | 11.0256 E+04       |
| 7   | -0.1517           | -0.1695            | 5.4      | 0.0178               | 11.0256 E+04       |
| 8   | -0.1341           | -0.1519            | 5.4      | 0.0178               | 11.0256 E+04       |
| 9   | -0.0910           | -0.1088            | 5.4      | 0.0178               | 11.0256 E+04       |
| 10  | -0.0797           | -0.0925            | 4.6      | 0.0127               | 9.3315 E+04        |
| 11  | -0.0717           | -0.0845            | 4.6      | 0.0127               | 9.3315 E+04        |
| 12  | -0.0666           | -0.0775            | 4.2      | 0.0109               | 8.6483 E+04        |
| 13  | -0.0637           | -0.0736            | 4.0      | 0.0100               | 7.3530 E+04        |
| 14  | -0.0570           | -0.0676            | 4.2      | 0.0107               | 6.2488 E+04        |
| 15  | -0.0499           | -0.0557            | 3.1      | 0.0058               | 3.9688 E+04        |
| 16  | -0.0170           | -0.0228            | 3.1      | 0.0058               | 3.9688 E+04        |
| 17  | -0.0197           | -0.0264            | 3.3      | 0.0068               | 3.7371 E+04        |
| 18  | -0.0204           | -0.0272            | 3.3      | 0.0068               | 3.7371 E+04        |
| 19  | -0.0175           | -0.0243            | 3.3      | 0.0068               | 3.7371 E+04        |
| 20  | -0.0092           | -0.0160            | 3.3      | 0.0068               | 3.7371 E+04        |
| 21  | -0.0070           | -0.0077            | 1.1      | 0.0008               | 1.2485 E+04        |
| 22  | -0.0174           | -0.0181            | 1.1      | 0.0008               | 1.2485 E+04        |
| 23  | -0.0064           | -0.0111            | 2.8      | 0.0047               | 3.0964 E+04        |
| 24  | -0.0188           | -0.0235            | 2.8      | 0.0047               | 3.0964 E+04        |

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## SIZE DATA

System name : 0202I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 2   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 3   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 4   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 5   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 6   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 7   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 8   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 9   | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 10  | REC   | 448.5           | 6.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 11  | REC   | 375.0           | 5.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 12  | REC   | 109.0           | 3.6      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 13  | REC   | 109.0           | 3.6      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 14  | REC   | 266.0           | 4.3      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 15  | REC   | 133.0           | 3.3      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 16  | REC   | 133.0           | 3.3      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 17  | REC   | 133.0           | 3.3      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 18  | REC   | 73.5            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## PRESSURE LOSS DATA

System name : 0202I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0014        |
| 2   | 0.0060      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0087        |
| 3   | 0.0060      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0088        |
| 4   | 0.0060      | 0.0000                    | 0.0000                | 0.0113       | 0.0000        | 0.0000          | 0.0172        |
| 5   | 0.0060      | 0.0000                    | 0.0000                | 0.0039       | 0.0000        | 0.0000          | 0.0099        |
| 6   | 0.0060      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0081        |
| 7   | 0.0060      | 0.0000                    | 0.0000                | 0.0153       | 0.0000        | 0.0000          | 0.0213        |
| 8   | 0.0060      | 0.0000                    | 0.0000                | 0.0050       | 0.0280        | 0.0000          | 0.0389        |
| 9   | 0.0060      | 0.0000                    | 0.0000                | 0.0093       | 0.0000        | 0.0000          | 0.0152        |
| 10  | 0.0060      | 0.0000                    | 0.0000                | 0.0065       | 0.0000        | 0.0000          | 0.0125        |
| 11  | -0.0000     | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0016        |
| 12  | 0.0046      | 0.0000                    | 0.0000                | 0.0045       | 0.0250        | 0.0000          | 0.0341        |
| 13  | 0.0028      | 0.0170                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0216        |
| 14  | 0.0041      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0169          | 0.0220        |
| 15  | 0.0006      | 0.0250                    | 0.0000                | 0.0016       | 0.0000        | 0.0066          | 0.0338        |
| 16  | 0.0052      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0058        |
| 17  | 0.0022      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0280        |
| 18  | 0.0096      | 0.0220                    | 0.0000                | 0.0009       | 0.0000        | 0.0248          | 0.0574        |

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## C-VALUE DATA

System name : 0202I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0634 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2714  | 0.0000            | 0.0000        | 0.1267 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2714  | 0.0000            | 0.0000        | 0.1270 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2714  | 0.0000            | 0.0000        | 0.5131 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2714  | 0.0000            | 0.0000        | 0.1795 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2714  | 0.0000            | 0.0000        | 0.0951 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2714  | 0.0000            | 0.0000        | 0.6970 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2714  | 0.0000            | 0.0000        | 0.2264 | 1.2746 | 0.0000  |
| 9   | 8   | 0.2714  | 0.0000            | 0.0000        | 0.4214 | 0.0000 | 0.0000  |
| 10  | 9   | 0.2714  | 0.0000            | 0.0000        | 0.2968 | 0.0000 | 0.0000  |
| 11  | 10  | -0.0022 | 0.0000            | 0.0000        | 0.1064 | 0.0000 | 0.0000  |
| 12  | 11  | 0.3000  | 0.0000            | 0.0000        | 0.5571 | 3.0828 | 0.0000  |
| 13  | 12  | 0.3507  | 2.0963            | 0.0000        | 0.2221 | 0.0000 | 0.0000  |
| 14  | 11  | 0.2667  | 0.0000            | 0.0000        | 0.0857 | 0.0000 | 1.5230  |
| 15  | 14  | 0.0528  | 3.6811            | 0.0000        | 0.2307 | 0.0000 | 0.9749  |
| 16  | 14  | 0.4640  | 0.0000            | 0.0000        | 0.0888 | 0.0000 | 0.0000  |
| 17  | 16  | 0.3173  | 3.6811            | 0.0000        | 0.1258 | 0.0000 | 0.0000  |
| 18  | 10  | 0.4365  | 3.3561            | 0.0000        | 0.1406 | 0.0000 | 3.7900  |

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## FAN DATA PRINTOUT

System name : 0202I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 448.5 L/s  |
| Fan Static Pressure .....                     | :           | 0.1379 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.1994 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.1994 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.1994 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.1379 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.1994 kPa |
| Total Downstream Losses ..... | : | 0.1994 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0202I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.1994            | 0.1774             | 6.0      | 0.0220               | 12.2556 E+04       |
| 2   | 0.1980            | 0.1760             | 6.0      | 0.0220               | 12.2556 E+04       |
| 3   | 0.1892            | 0.1672             | 6.0      | 0.0220               | 12.2556 E+04       |
| 4   | 0.1805            | 0.1585             | 6.0      | 0.0220               | 12.2556 E+04       |
| 5   | 0.1632            | 0.1413             | 6.0      | 0.0220               | 12.2556 E+04       |
| 6   | 0.1533            | 0.1314             | 6.0      | 0.0220               | 12.2556 E+04       |
| 7   | 0.1453            | 0.1233             | 6.0      | 0.0220               | 12.2556 E+04       |
| 8   | 0.1240            | 0.1020             | 6.0      | 0.0220               | 12.2556 E+04       |
| 9   | 0.0851            | 0.0631             | 6.0      | 0.0220               | 12.2556 E+04       |
| 10  | 0.0698            | 0.0479             | 6.0      | 0.0220               | 12.2556 E+04       |
| 11  | 0.0574            | 0.0420             | 5.0      | 0.0154               | 10.2471 E+04       |
| 12  | 0.0558            | 0.0477             | 3.6      | 0.0081               | 4.7022 E+04        |
| 13  | 0.0216            | 0.0135             | 3.6      | 0.0081               | 4.7022 E+04        |
| 14  | 0.0388            | 0.0277             | 4.3      | 0.0111               | 7.9707 E+04        |
| 15  | 0.0272            | 0.0204             | 3.3      | 0.0068               | 4.9817 E+04        |
| 16  | 0.0338            | 0.0270             | 3.3      | 0.0068               | 4.9817 E+04        |
| 17  | 0.0280            | 0.0212             | 3.3      | 0.0068               | 4.9817 E+04        |
| 18  | 0.0325            | 0.0260             | 3.3      | 0.0066               | 3.6707 E+04        |

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## SIZE DATA

System name : 0202R

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 24.

| Sec | Shape | Airflow<br>Rate | Velocity <-----> | Metal<br>Width | Height | Airflow <-----> | Height |
|-----|-------|-----------------|------------------|----------------|--------|-----------------|--------|
|     |       | L/s             | m/s              | mm             | mm     | mm              | mm     |
| 1   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 2   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 3   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 4   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 5   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 6   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 7   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 8   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 9   | REC   | 403.5           | 5.4              | 300.0          | 250.0  | 300.0           | 250.0  |
| 10  | REC   | 341.5           | 4.6              | 300.0          | 250.0  | 300.0           | 250.0  |
| 11  | REC   | 341.5           | 4.6              | 300.0          | 250.0  | 300.0           | 250.0  |
| 12  | REC   | 316.5           | 4.2              | 300.0          | 250.0  | 300.0           | 250.0  |
| 13  | REC   | 241.7           | 4.0              | 300.0          | 200.0  | 300.0           | 200.0  |
| 14  | REC   | 166.8           | 4.2              | 200.0          | 200.0  | 200.0           | 200.0  |
| 15  | REC   | 92.0            | 3.1              | 200.0          | 150.0  | 200.0           | 150.0  |
| 16  | REC   | 92.0            | 3.1              | 200.0          | 150.0  | 200.0           | 150.0  |
| 17  | REC   | 74.8            | 3.3              | 150.0          | 150.0  | 150.0           | 150.0  |
| 18  | REC   | 74.8            | 3.3              | 150.0          | 150.0  | 150.0           | 150.0  |
| 19  | REC   | 74.8            | 3.3              | 150.0          | 150.0  | 150.0           | 150.0  |
| 20  | REC   | 74.8            | 3.3              | 150.0          | 150.0  | 150.0           | 150.0  |
| 21  | REC   | 25.0            | 1.1              | 150.0          | 150.0  | 150.0           | 150.0  |
| 22  | REC   | 25.0            | 1.1              | 150.0          | 150.0  | 150.0           | 150.0  |
| 23  | REC   | 62.0            | 2.8              | 150.0          | 150.0  | 150.0           | 150.0  |
| 24  | REC   | 62.0            | 2.8              | 150.0          | 150.0  | 150.0           | 150.0  |

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## PRESSURE LOSS DATA

System name : 0202R

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 24.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0011        |
| 2   | 0.0050      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0073        |
| 3   | 0.0050      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0073        |
| 4   | 0.0050      | 0.0000                    | 0.0000                | 0.0093       | 0.0000        | 0.0000          | 0.0143        |
| 5   | 0.0050      | 0.0000                    | 0.0000                | 0.0032       | 0.0000        | 0.0000          | 0.0083        |
| 6   | 0.0050      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0067        |
| 7   | 0.0050      | 0.0000                    | 0.0000                | 0.0126       | 0.0000        | 0.0000          | 0.0176        |
| 8   | 0.0050      | 0.0000                    | 0.0000                | 0.0041       | 0.0340        | 0.0000          | 0.0431        |
| 9   | 0.0050      | 0.0000                    | 0.0000                | 0.0063       | 0.0000        | 0.0000          | 0.0113        |
| 10  | 0.0039      | 0.0000                    | 0.0000                | 0.0041       | 0.0000        | 0.0000          | 0.0080        |
| 11  | 0.0038      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0052        |
| 12  | 0.0015      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0029        |
| 13  | 0.0034      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0067        |
| 14  | 0.0018      | 0.0000                    | 0.0000                | 0.0053       | 0.0000        | 0.0000          | 0.0070        |
| 15  | 0.0053      | 0.0000                    | 0.0000                | 0.0027       | 0.0250        | 0.0000          | 0.0330        |
| 16  | 0.0021      | 0.0140                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0170        |
| 17  | 0.0044      | 0.0140                    | 0.0000                | 0.0013       | 0.0000        | 0.0303          | 0.0499        |
| 18  | 0.0023      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0366          | 0.0394        |
| 19  | 0.0023      | 0.0140                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0175        |
| 20  | -0.0059     | 0.0140                    | 0.0000                | 0.0011       | 0.0000        | 0.0545          | 0.0637        |
| 21  | -0.0106     | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0596          | 0.0492        |
| 22  | 0.0003      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 23  | -0.0133     | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0733          | 0.0609        |
| 24  | 0.0016      | 0.0170                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0188        |

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## C-VALUE DATA

System name : 0202R

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 24.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0645 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2817  | 0.0000            | 0.0000        | 0.1289 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2817  | 0.0000            | 0.0000        | 0.1291 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2817  | 0.0000            | 0.0000        | 0.5219 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2817  | 0.0000            | 0.0000        | 0.1825 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2817  | 0.0000            | 0.0000        | 0.0968 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2817  | 0.0000            | 0.0000        | 0.7090 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2817  | 0.0000            | 0.0000        | 0.2303 | 1.9123 | 0.0000  |
| 9   | 8   | 0.2817  | 0.0000            | 0.0000        | 0.3528 | 0.0000 | 0.0000  |
| 10  | 9   | 0.2190  | 0.0000            | 0.0000        | 0.3218 | 0.0000 | 0.0000  |
| 11  | 10  | 0.2963  | 0.0000            | 0.0000        | 0.1105 | 0.0000 | 0.0000  |
| 12  | 11  | 0.1171  | 0.0000            | 0.0000        | 0.1289 | 0.0000 | 0.0000  |
| 13  | 12  | 0.3101  | 0.0000            | 0.0000        | 0.3310 | 0.0000 | 0.0000  |
| 14  | 13  | 0.1767  | 0.0000            | 0.0000        | 0.4922 | 0.0000 | 0.0000  |
| 15  | 14  | 0.4940  | 0.0000            | 0.0000        | 0.4658 | 4.3274 | 0.0000  |
| 16  | 15  | 0.3594  | 2.4233            | 0.0000        | 0.1554 | 0.0000 | 0.0000  |
| 17  | 14  | 0.4111  | 2.0604            | 0.0000        | 0.1856 | 0.0000 | 4.4579  |
| 18  | 13  | 0.2300  | 0.0000            | 0.0000        | 0.0854 | 0.0000 | 5.3828  |
| 19  | 18  | 0.3320  | 2.0604            | 0.0000        | 0.1856 | 0.0000 | 0.0000  |
| 20  | 12  | -0.5415 | 2.0604            | 0.0000        | 0.1627 | 0.0000 | 8.0170  |
| 21  | 11  | -0.8300 | 0.0000            | 0.0000        | 0.2046 | 0.0000 | 78.5612 |
| 22  | 21  | 0.4080  | 22.4158           | 0.0000        | 0.1066 | 0.0000 | 0.0000  |
| 23  | 9   | -0.7495 | 0.0000            | 0.0000        | 0.1907 | 0.0000 | 15.7214 |
| 24  | 23  | 0.3428  | 3.6446            | 0.0000        | 0.0505 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0202R 24-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| -----   |             |             |
| Fan Airflow Rate .....                        | :           | 403.5 L/s   |
| Fan Static Pressure .....                     | :           | 0.1353 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1968 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1968 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1968 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.2582 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| -----                       |   |             |
| Return System Loss .....    | : | -0.1968 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1968 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| -----                         |   |            |
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| -----                     |   |                |
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0202R

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 24.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1968           | -0.2145            | 5.4      | 0.0178               | 11.0256 E+04       |
| 2   | -0.1956           | -0.2134            | 5.4      | 0.0178               | 11.0256 E+04       |
| 3   | -0.1883           | -0.2061            | 5.4      | 0.0178               | 11.0256 E+04       |
| 4   | -0.1810           | -0.1988            | 5.4      | 0.0178               | 11.0256 E+04       |
| 5   | -0.1667           | -0.1845            | 5.4      | 0.0178               | 11.0256 E+04       |
| 6   | -0.1585           | -0.1762            | 5.4      | 0.0178               | 11.0256 E+04       |
| 7   | -0.1517           | -0.1695            | 5.4      | 0.0178               | 11.0256 E+04       |
| 8   | -0.1341           | -0.1519            | 5.4      | 0.0178               | 11.0256 E+04       |
| 9   | -0.0910           | -0.1088            | 5.4      | 0.0178               | 11.0256 E+04       |
| 10  | -0.0797           | -0.0925            | 4.6      | 0.0127               | 9.3315 E+04        |
| 11  | -0.0717           | -0.0845            | 4.6      | 0.0127               | 9.3315 E+04        |
| 12  | -0.0666           | -0.0775            | 4.2      | 0.0109               | 8.6483 E+04        |
| 13  | -0.0637           | -0.0736            | 4.0      | 0.0100               | 7.3530 E+04        |
| 14  | -0.0570           | -0.0676            | 4.2      | 0.0107               | 6.2488 E+04        |
| 15  | -0.0499           | -0.0557            | 3.1      | 0.0058               | 3.9688 E+04        |
| 16  | -0.0170           | -0.0228            | 3.1      | 0.0058               | 3.9688 E+04        |
| 17  | -0.0197           | -0.0264            | 3.3      | 0.0068               | 3.7371 E+04        |
| 18  | -0.0204           | -0.0272            | 3.3      | 0.0068               | 3.7371 E+04        |
| 19  | -0.0175           | -0.0243            | 3.3      | 0.0068               | 3.7371 E+04        |
| 20  | -0.0092           | -0.0160            | 3.3      | 0.0068               | 3.7371 E+04        |
| 21  | -0.0070           | -0.0077            | 1.1      | 0.0008               | 1.2485 E+04        |
| 22  | -0.0174           | -0.0181            | 1.1      | 0.0008               | 1.2485 E+04        |
| 23  | -0.0064           | -0.0111            | 2.8      | 0.0047               | 3.0964 E+04        |
| 24  | -0.0188           | -0.0235            | 2.8      | 0.0047               | 3.0964 E+04        |

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## PRESSURE LOSS DATA

System name : 0203R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 117.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0014        |
| 2   | 0.0088      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0116        |
| 3   | 0.0088      | 0.0000                    | 0.0000                | 0.0057       | 0.0000        | 0.0000          | 0.0145        |
| 4   | 0.0088      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0107        |
| 5   | 0.0088      | 0.0000                    | 0.0000                | 0.0039       | 0.0000        | 0.0000          | 0.0127        |
| 6   | 0.0088      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0096        |
| 7   | 0.0088      | 0.0000                    | 0.0000                | 0.0155       | 0.0000        | 0.0000          | 0.0243        |
| 8   | 0.0088      | 0.0000                    | 0.0000                | 0.0019       | 0.0170        | 0.0000          | 0.0277        |
| 9   | 0.0026      | 0.0000                    | 0.0000                | 0.0013       | 0.0270        | 0.0000          | 0.0308        |
| 10  | 0.0048      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.1733          | 0.1797        |
| 11  | 0.0015      | 0.0000                    | 0.0000                | 0.0046       | 0.0000        | 0.0000          | 0.0061        |
| 12  | 0.0003      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0005        |
| 13  | 0.0004      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0151          | 0.0155        |
| 14  | 0.0045      | 0.0100                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0155        |
| 15  | 0.0003      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0018          | 0.0027        |
| 16  | 0.0008      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0009        |
| 17  | 0.0002      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0123          | 0.0125        |
| 18  | 0.0020      | 0.0100                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0125        |
| 19  | 0.0011      | 0.0100                    | 0.0000                | 0.0005       | 0.0000        | 0.0017          | 0.0133        |
| 20  | 0.0015      | 0.0000                    | 0.0000                | 0.0058       | 0.0000        | 0.0000          | 0.0073        |
| 21  | 0.0110      | 0.0000                    | 0.0000                | 0.0093       | 0.0290        | 0.1190          | 0.1683        |
| 22  | 0.0051      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.0073        |
| 23  | 0.0004      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0014        |
| 24  | 0.0007      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0169          | 0.0176        |
| 25  | 0.0072      | 0.0100                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0176        |
| 26  | 0.0004      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0010          | 0.0014        |
| 27  | 0.0007      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0169          | 0.0176        |
| 28  | 0.0072      | 0.0100                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0176        |
| 29  | 0.0022      | 0.0100                    | 0.0000                | 0.0037       | 0.0000        | 0.0104          | 0.0263        |
| 30  | 0.0351      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0376        |
| 31  | 0.0017      | 0.0000                    | 0.0000                | 0.0047       | 0.0000        | 0.0000          | 0.0064        |
| 32  | 0.0066      | 0.0000                    | 0.0000                | 0.0057       | 0.0000        | 0.0000          | 0.0123        |
| 33  | 0.0066      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0090        |
| 34  | 0.0023      | 0.0000                    | 0.0000                | 0.0076       | 0.0450        | 0.0000          | 0.0549        |
| 35  | 0.0160      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0193        |
| 36  | 0.0024      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0048        |
| 37  | 0.0010      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0004          | 0.0028        |
| 38  | 0.0036      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0437          | 0.0474        |
| 39  | 0.0064      | 0.0400                    | 0.0000                | 0.0006       | 0.0000        | 0.0004          | 0.0474        |
| 40  | 0.0064      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0068        |
| 41  | 0.0006      | 0.0400                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0406        |
| 42  | 0.0010      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0019        |
| 43  | 0.0036      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0447          | 0.0483        |
| 44  | 0.0064      | 0.0400                    | 0.0000                | 0.0006       | 0.0000        | 0.0013          | 0.0483        |
| 45  | 0.0064      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0068        |
| 46  | 0.0014      | 0.0400                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0416        |
| 47  | 0.0065      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0360          | 0.0435        |
| 48  | 0.0005      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0007        |
| 49  | 0.0005      | 0.0000                    | 0.0000                | 0.0001       | 0.0080        | 0.0000          | 0.0086        |
| 50  | 0.0004      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0211          | 0.0215        |



## PRESSURE LOSS DATA

System name : 0203R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 117. (Continued)

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 51  | 0.0042      | 0.0170                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0215        |
| 52  | -0.0002     | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0132          | 0.0302        |
| 53  | 0.0215      | 0.0000                    | 0.0000                | 0.0027       | 0.0130        | 0.0004          | 0.0377        |
| 54  | 0.0025      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0042        |
| 55  | 0.0019      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0044        |
| 56  | 0.0048      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0053        |
| 57  | 0.0004      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0223          | 0.0228        |
| 58  | 0.0045      | 0.0170                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0228        |
| 59  | 0.0064      | 0.0170                    | 0.0000                | 0.0012       | 0.0000        | 0.0035          | 0.0281        |
| 60  | 0.0029      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0081          | 0.0281        |
| 61  | -0.0017     | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0118          | 0.0108        |
| 62  | 0.0004      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0212          | 0.0216        |
| 63  | 0.0042      | 0.0170                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0216        |
| 64  | -0.0031     | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0206          | 0.0187        |
| 65  | 0.0006      | 0.0170                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0180        |
| 66  | -0.0075     | 0.0030                    | 0.0000                | 0.0005       | 0.0000        | 0.1333          | 0.1293        |
| 67  | 0.0045      | 0.0000                    | 0.0000                | 0.0053       | 0.0000        | 0.0725          | 0.0823        |
| 68  | 0.0049      | 0.0000                    | 0.0000                | 0.0071       | 0.0200        | 0.0000          | 0.0320        |
| 69  | 0.0006      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0014          | 0.0020        |
| 70  | 0.0012      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0208          | 0.0220        |
| 71  | 0.0118      | 0.0100                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0220        |
| 72  | 0.0006      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0020        |
| 73  | 0.0012      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0208          | 0.0220        |
| 74  | 0.0118      | 0.0100                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0220        |
| 75  | -0.0029     | 0.0000                    | 0.0000                | 0.0037       | 0.0000        | 0.0303          | 0.0311        |
| 76  | 0.0000      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0006        |
| 77  | 0.0036      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0207          | 0.0243        |
| 78  | 0.0064      | 0.0170                    | 0.0000                | 0.0005       | 0.0000        | 0.0004          | 0.0243        |
| 79  | 0.0064      | 0.0170                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0243        |
| 80  | -0.0073     | 0.0000                    | 0.0000                | 0.0060       | 0.0000        | 0.1169          | 0.1156        |
| 81  | 0.0026      | 0.0000                    | 0.0000                | 0.0066       | 0.0000        | 0.0000          | 0.0092        |
| 82  | 0.0007      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0016          | 0.0024        |
| 83  | 0.0013      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0221          | 0.0234        |
| 84  | 0.0132      | 0.0100                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0234        |
| 85  | 0.0007      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0024        |
| 86  | 0.0013      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0221          | 0.0234        |
| 87  | 0.0132      | 0.0100                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0234        |
| 88  | -0.0076     | 0.0170                    | 0.0000                | 0.0020       | 0.0000        | 0.0235          | 0.0350        |
| 89  | -0.0130     | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.1638          | 0.1520        |
| 90  | 0.0011      | 0.0030                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0051        |
| 91  | 0.0084      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.1671          | 0.1777        |
| 92  | 0.0127      | 0.0000                    | 0.0000                | 0.0056       | 0.0000        | 0.0000          | 0.0183        |
| 93  | 0.0000      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0024        |
| 94  | 0.0033      | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0000          | 0.0060        |
| 95  | 0.0020      | 0.0000                    | 0.0000                | 0.0055       | 0.0000        | 0.0000          | 0.0075        |
| 96  | 0.0013      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0055          | 0.0079        |
| 97  | 0.0001      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0005        |
| 98  | 0.0002      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0123          | 0.0125        |
| 99  | 0.0020      | 0.0100                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0125        |
| 100 | 0.0001      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0003          | 0.0005        |



## PRESSURE LOSS DATA

System name : 0203R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 117. (Continued)

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 101 | 0.0002      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0123          | 0.0125        |
| 102 | 0.0020      | 0.0100                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0125        |
| 103 | 0.0004      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.0026        |
| 104 | 0.0020      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0009          | 0.0034        |
| 105 | 0.0004      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0144          | 0.0148        |
| 106 | 0.0045      | 0.0100                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0148        |
| 107 | 0.0077      | 0.0100                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0182        |
| 108 | -0.0036     | 0.0030                    | 0.0000                | 0.0011       | 0.0000        | 0.0338          | 0.0343        |
| 109 | 0.0137      | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0149          | 0.0319        |
| 110 | 0.0009      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0071          | 0.0091        |
| 111 | 0.0010      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0130          | 0.0140        |
| 112 | 0.0103      | 0.0030                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0140        |
| 113 | 0.0003      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0011        |
| 114 | 0.0010      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0210          | 0.0220        |
| 115 | 0.0101      | 0.0100                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0220        |
| 116 | -0.0016     | 0.0000                    | 0.0000                | 0.0003       | 0.0080        | 0.0299          | 0.0366        |
| 117 | 0.0008      | 0.0170                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0184        |

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## C-VALUE DATA

System name : 0203R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 117.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other   | Balance |
|-----|-----|---------|-------------------|---------------|--------|---------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0387 | 0.0000  | 0.0000  |
| 2   | 1   | 0.2415  | 0.0000            | 0.0000        | 0.0773 | 0.0000  | 0.0000  |
| 3   | 2   | 0.2415  | 0.0000            | 0.0000        | 0.1549 | 0.0000  | 0.0000  |
| 4   | 3   | 0.2415  | 0.0000            | 0.0000        | 0.0528 | 0.0000  | 0.0000  |
| 5   | 4   | 0.2415  | 0.0000            | 0.0000        | 0.1063 | 0.0000  | 0.0000  |
| 6   | 5   | 0.2415  | 0.0000            | 0.0000        | 0.0218 | 0.0000  | 0.0000  |
| 7   | 6   | 0.2415  | 0.0000            | 0.0000        | 0.4252 | 0.0000  | 0.0000  |
| 8   | 7   | 0.2415  | 0.0000            | 0.0000        | 0.0530 | 0.4660  | 0.0000  |
| 9   | 8   | 0.0700  | 0.0000            | 0.0000        | 0.0604 | 1.2919  | 0.0000  |
| 10  | 9   | 0.2300  | 0.0000            | 0.0000        | 0.3761 | 0.0000  | 39.7222 |
| 11  | 10  | 0.3446  | 0.0000            | 0.0000        | 1.0561 | 0.0000  | 0.0000  |
| 12  | 11  | 0.0700  | 0.0000            | 0.0000        | 0.2674 | 0.0000  | 0.0000  |
| 13  | 12  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000  |
| 14  | 12  | 5.6000  | 1.5203            | 0.0000        | 0.1572 | 0.0000  | 0.0000  |
| 15  | 11  | 0.0700  | 0.0000            | 0.0000        | 0.4499 | 0.0000  | 1.2294  |
| 16  | 15  | 0.5300  | 0.0000            | 0.0000        | 0.2760 | 0.0000  | 0.0000  |
| 17  | 16  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000  |
| 18  | 16  | 5.6000  | 3.4220            | 0.0000        | 0.1704 | 0.0000  | 0.0000  |
| 19  | 15  | 0.7800  | 3.4220            | 0.0000        | 0.1704 | 0.0000  | 0.5941  |
| 20  | 9   | 0.0700  | 0.0000            | 0.0000        | 0.3183 | 0.0000  | 0.0000  |
| 21  | 20  | 0.5997  | 0.0000            | 0.0000        | 0.7664 | 2.3952  | 9.8325  |
| 22  | 21  | 0.4188  | 0.0000            | 0.0000        | 0.4366 | 0.0000  | 0.0000  |
| 23  | 22  | 0.0700  | 0.0000            | 0.0000        | 0.8140 | 0.0000  | 0.0000  |
| 24  | 23  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000  |
| 25  | 23  | 5.6000  | 1.9664            | 0.0000        | 0.0761 | 0.0000  | 0.0000  |
| 26  | 22  | 0.0700  | 0.0000            | 0.0000        | 0.0584 | 0.0000  | 0.7557  |
| 27  | 26  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000  |
| 28  | 26  | 5.6000  | 1.9664            | 0.0000        | 0.0761 | 0.0000  | 0.0000  |
| 29  | 21  | 0.1785  | 1.7186            | 0.0000        | 0.6368 | 0.0000  | 1.7936  |
| 30  | 20  | 1.9156  | 0.0000            | 0.0000        | 0.1224 | 0.0000  | 0.0000  |
| 31  | 30  | 0.0820  | 0.0000            | 0.0000        | 0.2537 | 0.0000  | 0.0000  |
| 32  | 31  | 0.3526  | 0.0000            | 0.0000        | 0.4086 | 0.0000  | 0.0000  |
| 33  | 32  | 0.4698  | 0.0000            | 0.0000        | 0.1929 | 0.0000  | 0.0000  |
| 34  | 33  | 0.1899  | 0.0000            | 0.0000        | 0.5153 | 3.0585  | 0.0000  |
| 35  | 34  | 1.0879  | 0.0000            | 0.0000        | 0.4870 | 0.0000  | 0.0000  |
| 36  | 35  | 0.3552  | 0.0000            | 0.0000        | 0.3513 | 0.0000  | 0.0000  |
| 37  | 36  | 0.1500  | 0.0000            | 0.0000        | 0.4597 | 0.0000  | 0.1419  |
| 38  | 37  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000  |
| 39  | 37  | 2.1183  | 15.6899           | 0.0000        | 0.2229 | 0.0000  | 0.1531  |
| 40  | 37  | 2.1183  | 0.0000            | 0.0000        | 0.1284 | 0.0000  | 0.0000  |
| 41  | 40  | 0.2200  | 15.6899           | 0.0000        | 0.0276 | 0.0000  | 0.0000  |
| 42  | 36  | 0.1500  | 0.0000            | 0.0000        | 0.2897 | 0.0000  | 0.0000  |
| 43  | 42  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000  |
| 44  | 42  | 2.1183  | 15.6899           | 0.0000        | 0.2230 | 0.0000  | 0.5242  |
| 45  | 42  | 2.1183  | 0.0000            | 0.0000        | 0.1284 | 0.0000  | 0.0000  |
| 46  | 45  | 0.2200  | 6.4266            | 0.0000        | 0.0334 | 0.0000  | 0.0000  |
| 47  | 34  | 0.4430  | 0.0000            | 0.0000        | 0.7040 | 0.0000  | 25.8341 |
| 48  | 47  | 0.3865  | 0.0000            | 0.0000        | 0.1133 | 0.0000  | 0.0000  |
| 49  | 48  | 0.3388  | 0.0000            | 0.0000        | 0.1877 | 10.5486 | 0.0000  |
| 50  | 49  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000  |
| 51  | 49  | 5.6000  | 6.6682            | 0.0000        | 0.1188 | 0.0000  | 0.0000  |
| 52  | 48  | -0.1247 | 21.5510           | 0.0000        | 0.1784 | 0.0000  | 16.7312 |
| 53  | 34  | 1.4640  | 0.0000            | 0.0000        | 0.3262 | 1.5514  | 0.0519  |



## C-VALUE DATA

System name : 0203R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 117. (Continued)

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 54  | 53  | 0.2982  | 0.0000            | 0.0000        | 0.3463 | 0.0000 | 0.0000  |
| 55  | 54  | 0.3705  | 0.0000            | 0.0000        | 0.5570 | 0.0000 | 0.0000  |
| 56  | 55  | 1.0682  | 0.0000            | 0.0000        | 0.6493 | 0.0000 | 0.0000  |
| 57  | 56  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 58  | 56  | 5.6000  | 6.3099            | 0.0000        | 0.4745 | 0.0000 | 0.0000  |
| 59  | 55  | 1.4288  | 6.6682            | 0.0000        | 0.4772 | 0.0000 | 1.3543  |
| 60  | 55  | 0.6368  | 40.8550           | 0.0000        | 0.2595 | 0.0000 | 19.5005 |
| 61  | 54  | -0.3328 | 0.0000            | 0.0000        | 0.9591 | 0.0000 | 15.5017 |
| 62  | 61  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 63  | 61  | 5.6000  | 6.6682            | 0.0000        | 0.1490 | 0.0000 | 0.0000  |
| 64  | 53  | -0.3757 | 0.0000            | 0.0000        | 0.4772 | 0.0000 | 8.0934  |
| 65  | 64  | 0.2200  | 6.6682            | 0.0000        | 0.1627 | 0.0000 | 0.0000  |
| 66  | 33  | -0.6083 | 0.5787            | 0.0000        | 0.0995 | 0.0000 | 25.7160 |
| 67  | 32  | 0.3180  | 0.0000            | 0.0000        | 0.3528 | 0.0000 | 4.8109  |
| 68  | 67  | 0.3276  | 0.0000            | 0.0000        | 0.8370 | 2.3743 | 0.0000  |
| 69  | 68  | 0.0700  | 0.0000            | 0.0000        | 0.0433 | 0.0000 | 0.6420  |
| 70  | 69  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 71  | 69  | 5.6000  | 2.9292            | 0.0000        | 0.0599 | 0.0000 | 0.0000  |
| 72  | 68  | 0.0700  | 0.0000            | 0.0000        | 0.6853 | 0.0000 | 0.0000  |
| 73  | 72  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 74  | 72  | 5.6000  | 2.9292            | 0.0000        | 0.0599 | 0.0000 | 0.0000  |
| 75  | 67  | -0.1939 | 0.0000            | 0.0000        | 0.3589 | 0.0000 | 2.9758  |
| 76  | 75  | 0.0000  | 0.0000            | 0.0000        | 0.1959 | 0.0000 | 0.0000  |
| 77  | 76  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 78  | 76  | 2.1183  | 6.6682            | 0.0000        | 0.1982 | 0.0000 | 0.1598  |
| 79  | 76  | 2.1183  | 6.6682            | 0.0000        | 0.3579 | 0.0000 | 0.0000  |
| 80  | 31  | -0.3945 | 0.0000            | 0.0000        | 0.4774 | 0.0000 | 9.2349  |
| 81  | 80  | 0.2014  | 0.0000            | 0.0000        | 0.7060 | 0.0000 | 0.0000  |
| 82  | 81  | 0.0700  | 0.0000            | 0.0000        | 0.0557 | 0.0000 | 0.6669  |
| 83  | 82  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 84  | 82  | 5.6000  | 2.6206            | 0.0000        | 0.0593 | 0.0000 | 0.0000  |
| 85  | 81  | 0.0700  | 0.0000            | 0.0000        | 0.7226 | 0.0000 | 0.0000  |
| 86  | 85  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 87  | 85  | 5.6000  | 2.6206            | 0.0000        | 0.0593 | 0.0000 | 0.0000  |
| 88  | 80  | -0.5999 | 6.6682            | 0.0000        | 0.7942 | 0.0000 | 9.2322  |
| 89  | 30  | -0.6300 | 0.0000            | 0.0000        | 0.2348 | 0.0000 | 31.5866 |
| 90  | 89  | 0.2200  | 0.5787            | 0.0000        | 0.1768 | 0.0000 | 0.0000  |
| 91  | 8   | 0.2300  | 0.0000            | 0.0000        | 0.1577 | 0.0000 | 11.8239 |
| 92  | 91  | 0.8959  | 0.0000            | 0.0000        | 0.5229 | 0.0000 | 0.0000  |
| 93  | 92  | 0.0000  | 0.0000            | 0.0000        | 0.2221 | 0.0000 | 0.0000  |
| 94  | 93  | 0.3053  | 0.0000            | 0.0000        | 0.4254 | 0.0000 | 0.0000  |
| 95  | 94  | 0.3191  | 0.0000            | 0.0000        | 0.8632 | 0.0000 | 0.0000  |
| 96  | 95  | 0.2100  | 0.0000            | 0.0000        | 0.7476 | 0.0000 | 3.8736  |
| 97  | 96  | 0.0700  | 0.0000            | 0.0000        | 1.0122 | 0.0000 | 0.0000  |
| 98  | 97  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 99  | 97  | 5.6000  | 3.4220            | 0.0000        | 0.1674 | 0.0000 | 0.0000  |
| 100 | 96  | 0.0700  | 0.0000            | 0.0000        | 0.0759 | 0.0000 | 0.9362  |
| 101 | 100 | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 102 | 100 | 5.6000  | 3.4220            | 0.0000        | 0.1674 | 0.0000 | 0.0000  |
| 103 | 95  | 0.0700  | 0.0000            | 0.0000        | 0.6398 | 0.0000 | 0.0000  |
| 104 | 103 | 0.5927  | 0.0000            | 0.0000        | 0.6914 | 0.0000 | 1.0619  |
| 105 | 104 | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 106 | 104 | 5.6000  | 3.7117            | 0.0000        | 0.1172 | 0.0000 | 0.0000  |



## C-VALUE DATA

System name : 0203R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 117. (Continued)

```

-----
Sec    Frm      Fit      Equip      Equip      Fric      Other      Balance
      Terminal  Thru
-----
107    103      2.2497    1.4004    0.0000    0.0782    0.0000    0.0000
108     93     -0.3315    0.4873    0.0000    0.1803    0.0000    5.4882
109     91      0.9673    0.0000    0.0000    0.7567    0.0000    3.3586
110    109      0.2100    0.0000    0.0000    0.5426    0.0000    3.8988
111    110      0.0000    0.0000    0.0000    0.0000    0.0000    0.0000
112    110      5.6000    0.4873    0.0000    0.1284    0.0000    0.0000
113    109      0.0700    0.0000    0.0000    0.4205    0.0000    0.0000
114    113      0.0000    0.0000    0.0000    0.0000    0.0000    0.0000
115    113      5.6000    1.4004    0.0000    0.2715    0.0000    0.0000
116     91     -0.1127    0.0000    0.0000    0.3810    10.5486    39.4664
117    116      0.3000    6.6682    0.0000    0.2403    0.0000    0.0000
*****

```



## FAN DATA PRINTOUT

System name : 0203R 20-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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## Fan Selection Parameters (Return System)

```

-----
Fan Airflow Rate ..... : 1233.0 L/s
Fan Static Pressure ..... : 0.2839 kPa
-----
Total Pressure Difference Across Fan ..... : 0.3453 kPa
Static Pressure Difference Across Fan ..... : 0.3453 kPa
Velocity Pressure Difference Across Fan ..... : 0.0000 kPa
-----
Fan Inlet / Outlet Data                At Inlet                At Outlet
-----
Total Pressure ..... : -0.3453 kPa                0.0000 kPa
Static Pressure ..... : -0.4067 kPa                -0.0614 kPa
Velocity Pressure ..... : 0.0614 kPa                0.0614 kPa
Velocity ..... : 10.0 m/s                10.0 m/s
-----

```

## Losses Upstream of Fan

```

-----
Return System Loss ..... : -0.3453 kPa
Filter Loss ..... : 0.0000 kPa
Other Upstream Losses ..... : 0.0000 kPa
Total Upstream Losses ..... : -0.3453 kPa
-----

```

## Losses Downstream of Fan

```

-----
Filter Loss ..... : 0.0000 kPa
Other Downstream Losses ..... : 0.0000 kPa
Total Downstream Losses ..... : 0.0000 kPa
-----

```

## Psychrometric Properties

```

-----
Altitude ..... : 0.0 m
Temperature ..... : 12.8 C
Relative Humidity ..... : 100.0 %
Density ..... : 1.2296 kg/cu m
Viscosity ..... : 0.0040 sqm/s
Barometric Pressure ..... : 101.3260 kPa
Vapor Pressure ..... : 1.4734 kPa
-----
*****

```



## PRESSURE LOSS DATA II

System name : 0203R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 117.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.3453           | -0.3818            | 7.7      | 0.0365               | 23.0921 E+04       |
| 2   | -0.3439           | -0.3804            | 7.7      | 0.0365               | 23.0921 E+04       |
| 3   | -0.3323           | -0.3687            | 7.7      | 0.0365               | 23.0921 E+04       |
| 4   | -0.3178           | -0.3543            | 7.7      | 0.0365               | 23.0921 E+04       |
| 5   | -0.3071           | -0.3435            | 7.7      | 0.0365               | 23.0921 E+04       |
| 6   | -0.2944           | -0.3309            | 7.7      | 0.0365               | 23.0921 E+04       |
| 7   | -0.2848           | -0.3213            | 7.7      | 0.0365               | 23.0921 E+04       |
| 8   | -0.2604           | -0.2969            | 7.7      | 0.0365               | 23.0921 E+04       |
| 9   | -0.2327           | -0.2536            | 5.8      | 0.0209               | 17.4781 E+04       |
| 10  | -0.0286           | -0.0330            | 2.7      | 0.0044               | 2.9945 E+04        |
| 11  | -0.0222           | -0.0265            | 2.7      | 0.0044               | 2.9945 E+04        |
| 12  | -0.0160           | -0.0168            | 1.1      | 0.0008               | 1.2835 E+04        |
| 13  | -0.0004           | -0.0004            | 0.0      | 0.0000               | 0.0000 E+04        |
| 14  | -0.0155           | -0.0221            | 3.3      | 0.0066               | 2.2424 E+04        |
| 15  | -0.0143           | -0.0157            | 1.5      | 0.0014               | 1.7110 E+04        |
| 16  | -0.0133           | -0.0137            | 0.8      | 0.0004               | 0.8555 E+04        |
| 17  | -0.0002           | -0.0002            | 0.0      | 0.0000               | 0.0000 E+04        |
| 18  | -0.0125           | -0.0154            | 2.2      | 0.0029               | 1.4946 E+04        |
| 19  | -0.0116           | -0.0145            | 2.2      | 0.0029               | 1.4946 E+04        |
| 20  | -0.2019           | -0.2202            | 5.5      | 0.0183               | 16.3552 E+04       |
| 21  | -0.0756           | -0.0877            | 4.4      | 0.0121               | 6.6515 E+04        |
| 22  | -0.0263           | -0.0314            | 2.9      | 0.0051               | 4.3337 E+04        |
| 23  | -0.0190           | -0.0203            | 1.4      | 0.0013               | 2.1668 E+04        |
| 24  | -0.0007           | -0.0007            | 0.0      | 0.0000               | 0.0000 E+04        |
| 25  | -0.0176           | -0.0227            | 2.9      | 0.0051               | 3.1547 E+04        |
| 26  | -0.0180           | -0.0193            | 1.4      | 0.0013               | 2.1668 E+04        |
| 27  | -0.0007           | -0.0007            | 0.0      | 0.0000               | 0.0000 E+04        |
| 28  | -0.0176           | -0.0227            | 2.9      | 0.0051               | 3.1547 E+04        |
| 29  | -0.0159           | -0.0217            | 3.1      | 0.0058               | 3.3745 E+04        |
| 30  | -0.1946           | -0.2152            | 5.8      | 0.0206               | 15.0064 E+04       |
| 31  | -0.1570           | -0.1756            | 5.5      | 0.0186               | 14.2375 E+04       |
| 32  | -0.1506           | -0.1647            | 4.8      | 0.0141               | 11.2574 E+04       |
| 33  | -0.1383           | -0.1507            | 4.5      | 0.0124               | 8.4007 E+04        |
| 34  | -0.1293           | -0.1440            | 4.9      | 0.0147               | 8.1852 E+04        |
| 35  | -0.0744           | -0.0812            | 3.3      | 0.0068               | 4.3139 E+04        |
| 36  | -0.0551           | -0.0619            | 3.3      | 0.0068               | 4.3139 E+04        |
| 37  | -0.0498           | -0.0528            | 2.2      | 0.0030               | 2.4971 E+04        |
| 38  | -0.0036           | -0.0036            | 0.0      | 0.0000               | 0.0000 E+04        |
| 39  | -0.0470           | -0.0495            | 2.0      | 0.0025               | 1.7450 E+04        |
| 40  | -0.0474           | -0.0499            | 2.0      | 0.0025               | 1.7450 E+04        |
| 41  | -0.0406           | -0.0432            | 2.0      | 0.0025               | 1.7450 E+04        |
| 42  | -0.0502           | -0.0533            | 2.2      | 0.0030               | 2.4971 E+04        |
| 43  | -0.0036           | -0.0036            | 0.0      | 0.0000               | 0.0000 E+04        |
| 44  | -0.0470           | -0.0495            | 2.0      | 0.0025               | 1.7450 E+04        |
| 45  | -0.0483           | -0.0509            | 2.0      | 0.0025               | 1.7450 E+04        |
| 46  | -0.0416           | -0.0478            | 3.2      | 0.0062               | 2.1813 E+04        |
| 47  | -0.0384           | -0.0398            | 1.5      | 0.0014               | 1.6930 E+04        |
| 48  | -0.0309           | -0.0323            | 1.5      | 0.0014               | 1.6930 E+04        |
| 49  | -0.0302           | -0.0309            | 1.1      | 0.0008               | 1.2485 E+04        |
| 50  | -0.0004           | -0.0004            | 0.0      | 0.0000               | 0.0000 E+04        |
| 51  | -0.0215           | -0.0241            | 2.0      | 0.0025               | 1.7450 E+04        |



## PRESSURE LOSS DATA II

System name : 0203R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 117. (Continued)

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 52  | -0.0170           | -0.0178            | 1.1      | 0.0008               | 0.7765 E+04        |
| 53  | -0.0740           | -0.0823            | 3.7      | 0.0084               | 4.7798 E+04        |
| 54  | -0.0367           | -0.0417            | 2.9      | 0.0050               | 3.7013 E+04        |
| 55  | -0.0324           | -0.0369            | 2.7      | 0.0045               | 3.0364 E+04        |
| 56  | -0.0281           | -0.0289            | 1.1      | 0.0008               | 1.2835 E+04        |
| 57  | -0.0004           | -0.0004            | 0.0      | 0.0000               | 0.0000 E+04        |
| 58  | -0.0228           | -0.0255            | 2.1      | 0.0027               | 1.7939 E+04        |
| 59  | -0.0246           | -0.0272            | 2.0      | 0.0025               | 1.7450 E+04        |
| 60  | -0.0200           | -0.0204            | 0.8      | 0.0004               | 0.7050 E+04        |
| 61  | -0.0207           | -0.0214            | 1.1      | 0.0008               | 1.2485 E+04        |
| 62  | -0.0004           | -0.0004            | 0.0      | 0.0000               | 0.0000 E+04        |
| 63  | -0.0216           | -0.0242            | 2.0      | 0.0025               | 1.7450 E+04        |
| 64  | -0.0160           | -0.0186            | 2.0      | 0.0025               | 1.7450 E+04        |
| 65  | -0.0180           | -0.0205            | 2.0      | 0.0025               | 1.7450 E+04        |
| 66  | 0.0040            | -0.0012            | 2.9      | 0.0052               | 2.4884 E+04        |
| 67  | -0.0658           | -0.0809            | 5.0      | 0.0151               | 7.4208 E+04        |
| 68  | -0.0560           | -0.0644            | 3.7      | 0.0084               | 5.5480 E+04        |
| 69  | -0.0227           | -0.0248            | 1.9      | 0.0021               | 2.7740 E+04        |
| 70  | -0.0012           | -0.0012            | 0.0      | 0.0000               | 0.0000 E+04        |
| 71  | -0.0220           | -0.0254            | 2.4      | 0.0034               | 3.2310 E+04        |
| 72  | -0.0240           | -0.0261            | 1.9      | 0.0021               | 2.7740 E+04        |
| 73  | -0.0012           | -0.0012            | 0.0      | 0.0000               | 0.0000 E+04        |
| 74  | -0.0220           | -0.0254            | 2.4      | 0.0034               | 3.2310 E+04        |
| 75  | -0.0257           | -0.0359            | 4.1      | 0.0102               | 3.4901 E+04        |
| 76  | -0.0249           | -0.0280            | 2.2      | 0.0030               | 2.4971 E+04        |
| 77  | -0.0036           | -0.0036            | 0.0      | 0.0000               | 0.0000 E+04        |
| 78  | -0.0239           | -0.0265            | 2.0      | 0.0025               | 1.7450 E+04        |
| 79  | -0.0243           | -0.0269            | 2.0      | 0.0025               | 1.7450 E+04        |
| 80  | -0.0337           | -0.0463            | 4.5      | 0.0127               | 6.8020 E+04        |
| 81  | -0.0350           | -0.0444            | 3.9      | 0.0094               | 5.8656 E+04        |
| 82  | -0.0242           | -0.0266            | 2.0      | 0.0024               | 2.9328 E+04        |
| 83  | -0.0013           | -0.0013            | 0.0      | 0.0000               | 0.0000 E+04        |
| 84  | -0.0234           | -0.0272            | 2.5      | 0.0038               | 3.4159 E+04        |
| 85  | -0.0258           | -0.0281            | 2.0      | 0.0024               | 2.9328 E+04        |
| 86  | -0.0013           | -0.0013            | 0.0      | 0.0000               | 0.0000 E+04        |
| 87  | -0.0234           | -0.0272            | 2.5      | 0.0038               | 3.4159 E+04        |
| 88  | -0.0114           | -0.0140            | 2.0      | 0.0025               | 1.7450 E+04        |
| 89  | 0.0067            | 0.0016             | 2.9      | 0.0052               | 2.4884 E+04        |
| 90  | -0.0051           | -0.0102            | 2.9      | 0.0052               | 2.4884 E+04        |
| 91  | -0.0656           | -0.0798            | 4.8      | 0.0141               | 8.9823 E+04        |
| 92  | -0.0550           | -0.0658            | 4.2      | 0.0108               | 6.2687 E+04        |
| 93  | -0.0367           | -0.0475            | 4.2      | 0.0108               | 6.2687 E+04        |
| 94  | -0.0343           | -0.0407            | 3.2      | 0.0063               | 4.8135 E+04        |
| 95  | -0.0284           | -0.0347            | 3.2      | 0.0063               | 4.8135 E+04        |
| 96  | -0.0153           | -0.0168            | 1.5      | 0.0014               | 1.7110 E+04        |
| 97  | -0.0129           | -0.0133            | 0.8      | 0.0004               | 0.8555 E+04        |
| 98  | -0.0002           | -0.0002            | 0.0      | 0.0000               | 0.0000 E+04        |
| 99  | -0.0125           | -0.0154            | 2.2      | 0.0029               | 1.4946 E+04        |
| 100 | -0.0126           | -0.0130            | 0.8      | 0.0004               | 0.8555 E+04        |
| 101 | -0.0002           | -0.0002            | 0.0      | 0.0000               | 0.0000 E+04        |
| 102 | -0.0125           | -0.0154            | 2.2      | 0.0029               | 1.4946 E+04        |



## PRESSURE LOSS DATA II

System name : 0203R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 117. (Continued)

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 103 | -0.0209           | -0.0243            | 2.4      | 0.0034               | 3.5302 E+04        |
| 104 | -0.0174           | -0.0182            | 1.1      | 0.0008               | 1.2835 E+04        |
| 105 | -0.0004           | -0.0004            | 0.0      | 0.0000               | 0.0000 E+04        |
| 106 | -0.0148           | -0.0175            | 2.1      | 0.0027               | 1.7939 E+04        |
| 107 | -0.0182           | -0.0254            | 3.4      | 0.0071               | 3.7382 E+04        |
| 108 | -0.0005           | -0.0067            | 3.2      | 0.0062               | 2.7118 E+04        |
| 109 | -0.0401           | -0.0446            | 2.7      | 0.0044               | 4.0228 E+04        |
| 110 | -0.0160           | -0.0178            | 1.7      | 0.0018               | 1.9402 E+04        |
| 111 | -0.0010           | -0.0010            | 0.0      | 0.0000               | 0.0000 E+04        |
| 112 | -0.0140           | -0.0202            | 3.2      | 0.0062               | 2.7118 E+04        |
| 113 | -0.0231           | -0.0249            | 1.7      | 0.0018               | 2.5676 E+04        |
| 114 | -0.0010           | -0.0010            | 0.0      | 0.0000               | 0.0000 E+04        |
| 115 | -0.0220           | -0.0292            | 3.4      | 0.0071               | 3.7382 E+04        |
| 116 | -0.0251           | -0.0258            | 1.1      | 0.0008               | 1.2485 E+04        |
| 117 | -0.0184           | -0.0209            | 2.0      | 0.0025               | 1.7450 E+04        |

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## SIZE DATA

System name : 0203R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 117.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1233.0          | 7.7      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 2   | REC   | 1233.0          | 7.7      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 3   | REC   | 1233.0          | 7.7      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 4   | REC   | 1233.0          | 7.7      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 5   | REC   | 1233.0          | 7.7      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 6   | REC   | 1233.0          | 7.7      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 7   | REC   | 1233.0          | 7.7      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 8   | REC   | 1233.0          | 7.7      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 9   | REC   | 933.3           | 5.8      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 10  | REC   | 60.0            | 2.7      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 11  | REC   | 60.0            | 2.7      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 12  | REC   | 25.7            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 13  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 14  | RND   | 25.7            | 3.3      | -----               | 100.0  | -----                 | 100.0  |
| 15  | REC   | 34.3            | 1.5      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 16  | REC   | 17.1            | 0.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 17  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 18  | RND   | 17.1            | 2.2      | -----               | 100.0  | -----                 | 100.0  |
| 19  | RND   | 17.1            | 2.2      | -----               | 100.0  | -----                 | 100.0  |
| 20  | REC   | 873.3           | 5.5      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 21  | REC   | 177.6           | 4.4      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 22  | REC   | 115.7           | 2.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 23  | REC   | 57.8            | 1.4      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 24  | REC   | 0.0             | 0.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 25  | RND   | 57.8            | 2.9      | -----               | 160.0  | -----                 | 160.0  |
| 26  | REC   | 57.8            | 1.4      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 27  | REC   | 0.0             | 0.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 28  | RND   | 57.8            | 2.9      | -----               | 160.0  | -----                 | 160.0  |
| 29  | RND   | 61.9            | 3.1      | -----               | 160.0  | -----                 | 160.0  |
| 30  | REC   | 695.7           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 31  | REC   | 660.1           | 5.5      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 32  | REC   | 478.5           | 4.8      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 33  | REC   | 280.4           | 4.5      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 34  | REC   | 244.7           | 4.9      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 35  | REC   | 100.0           | 3.3      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 36  | REC   | 100.0           | 3.3      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 37  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 38  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 39  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 40  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 41  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 42  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 43  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 44  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 45  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 46  | RND   | 25.0            | 3.2      | -----               | 100.0  | -----                 | 100.0  |
| 47  | REC   | 33.9            | 1.5      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 48  | REC   | 33.9            | 1.5      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 49  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## SIZE DATA

System name : 0203R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 117. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 50  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 51  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 52  | RND   | 8.9             | 1.1      | -----               | 100.0  | -----                 | 100.0  |
| 53  | REC   | 110.8           | 3.7      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 54  | REC   | 85.8            | 2.9      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 55  | REC   | 60.8            | 2.7      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 56  | REC   | 25.7            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 57  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 58  | RND   | 25.7            | 2.1      | -----               | 125.0  | -----                 | 125.0  |
| 59  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 60  | RND   | 10.1            | 0.8      | -----               | 125.0  | -----                 | 125.0  |
| 61  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 62  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 63  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 64  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 65  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 66  | RND   | 35.7            | 2.9      | -----               | 125.0  | -----                 | 125.0  |
| 67  | REC   | 198.1           | 5.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 68  | REC   | 148.1           | 3.7      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 69  | REC   | 74.1            | 1.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 70  | REC   | 0.0             | 0.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 71  | RND   | 74.1            | 2.4      | -----               | 200.0  | -----                 | 200.0  |
| 72  | REC   | 74.1            | 1.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 73  | REC   | 0.0             | 0.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 74  | RND   | 74.1            | 2.4      | -----               | 200.0  | -----                 | 200.0  |
| 75  | RND   | 50.0            | 4.1      | -----               | 125.0  | -----                 | 125.0  |
| 76  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 77  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 78  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 79  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 80  | REC   | 181.6           | 4.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 81  | REC   | 156.6           | 3.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 82  | REC   | 78.3            | 2.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 83  | REC   | 0.0             | 0.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 84  | RND   | 78.3            | 2.5      | -----               | 200.0  | -----                 | 200.0  |
| 85  | REC   | 78.3            | 2.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 86  | REC   | 0.0             | 0.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 87  | RND   | 78.3            | 2.5      | -----               | 200.0  | -----                 | 200.0  |
| 88  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 89  | RND   | 35.7            | 2.9      | -----               | 125.0  | -----                 | 125.0  |
| 90  | RND   | 35.7            | 2.9      | -----               | 125.0  | -----                 | 125.0  |
| 91  | REC   | 299.8           | 4.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 92  | REC   | 167.4           | 4.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 93  | REC   | 167.4           | 4.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 94  | REC   | 128.5           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 95  | REC   | 128.5           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 96  | REC   | 34.3            | 1.5      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 97  | REC   | 17.1            | 0.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 98  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## SIZE DATA

System name : 0203R

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 117. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----><br>Width Height | <----- Airflow -----><br>Width Height |
|-----|-------|-----------------|----------|-------------------------------------|---------------------------------------|
|     |       | L/s             | m/s      | mm mm                               | mm mm                                 |
| 99  | RND   | 17.1            | 2.2      | ----- 100.0                         | ----- 100.0                           |
| 100 | REC   | 17.1            | 0.8      | 150.0 150.0                         | 150.0 150.0                           |
| 101 | REC   | 0.0             | 0.0      | 150.0 150.0                         | 150.0 150.0                           |
| 102 | RND   | 17.1            | 2.2      | ----- 100.0                         | ----- 100.0                           |
| 103 | REC   | 94.3            | 2.4      | 200.0 200.0                         | 200.0 200.0                           |
| 104 | REC   | 25.7            | 1.1      | 150.0 150.0                         | 150.0 150.0                           |
| 105 | REC   | 0.0             | 0.0      | 150.0 150.0                         | 150.0 150.0                           |
| 106 | RND   | 25.7            | 2.1      | ----- 125.0                         | ----- 125.0                           |
| 107 | RND   | 68.6            | 3.4      | ----- 160.0                         | ----- 160.0                           |
| 108 | RND   | 38.9            | 3.2      | ----- 125.0                         | ----- 125.0                           |
| 109 | REC   | 107.4           | 2.7      | 200.0 200.0                         | 200.0 200.0                           |
| 110 | REC   | 38.9            | 1.7      | 150.0 150.0                         | 150.0 150.0                           |
| 111 | REC   | 0.0             | 0.0      | 150.0 150.0                         | 150.0 150.0                           |
| 112 | RND   | 38.9            | 3.2      | ----- 125.0                         | ----- 125.0                           |
| 113 | REC   | 68.6            | 1.7      | 200.0 200.0                         | 200.0 200.0                           |
| 114 | REC   | 0.0             | 0.0      | 200.0 200.0                         | 200.0 200.0                           |
| 115 | RND   | 68.6            | 3.4      | ----- 160.0                         | ----- 160.0                           |
| 116 | REC   | 25.0            | 1.1      | 150.0 150.0                         | 150.0 150.0                           |
| 117 | RND   | 25.0            | 2.0      | ----- 125.0                         | ----- 125.0                           |

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## C-VALUE DATA

System name : 0203I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 66.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other   | Balance |
|-----|-----|---------|-------------------|---------------|--------|---------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0629 | 0.0000  | 0.0000  |
| 2   | 1   | 0.2415  | 0.0000            | 0.0000        | 0.0605 | 0.0000  | 0.0000  |
| 3   | 2   | 0.2415  | 0.0000            | 0.0000        | 0.1942 | 0.0000  | 0.0000  |
| 4   | 3   | 0.2415  | 0.0000            | 0.0000        | 0.3409 | 0.0000  | 0.0000  |
| 5   | 4   | 0.2415  | 0.0000            | 0.0000        | 0.1202 | 0.0000  | 0.0000  |
| 6   | 5   | 0.2710  | 0.0000            | 0.0000        | 0.1108 | 0.8587  | 0.0000  |
| 7   | 6   | 0.2415  | 0.0000            | 0.0000        | 0.2895 | 0.0000  | 0.0000  |
| 8   | 7   | 0.2415  | 0.0000            | 0.0000        | 0.1490 | 0.0000  | 0.0000  |
| 9   | 8   | -0.0154 | 0.0000            | 0.0000        | 0.0130 | 0.0000  | 0.0000  |
| 10  | 9   | -0.0352 | 0.0000            | 0.0000        | 0.2634 | 1.3595  | 0.0000  |
| 11  | 10  | 0.0060  | 0.0000            | 0.0000        | 0.1400 | 0.0000  | 0.0000  |
| 12  | 11  | 0.0867  | 0.0000            | 0.0000        | 0.5060 | 0.0000  | 0.0000  |
| 13  | 12  | 0.2055  | 0.0000            | 0.0000        | 0.2565 | 28.0575 | 0.0000  |
| 14  | 13  | 0.0130  | 0.0000            | 0.0000        | 0.0984 | 0.0000  | 0.0000  |
| 15  | 14  | 0.0347  | 0.0000            | 0.0000        | 0.2018 | 0.0000  | 33.4160 |
| 16  | 15  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000  |
| 17  | 15  | 1.4000  | 1.6434            | 0.0000        | 0.1317 | 0.0000  | 0.0000  |
| 18  | 14  | 0.4405  | 0.0000            | 0.0000        | 0.0859 | 0.0000  | 0.0000  |
| 19  | 18  | 0.0363  | 0.0000            | 0.0000        | 0.9310 | 0.0000  | 0.0000  |
| 20  | 19  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000  |
| 21  | 19  | 1.4000  | 9.3594            | 0.0000        | 0.1161 | 0.0000  | 0.0000  |
| 22  | 18  | 1.4000  | 5.5763            | 0.0000        | 0.1680 | 0.0000  | 3.6148  |
| 23  | 13  | 1.0120  | 1.7825            | 0.0000        | 0.7149 | 0.0000  | 9.5098  |
| 24  | 12  | 0.2900  | 0.0000            | 0.0000        | 0.1109 | 3.4048  | 3.4754  |
| 25  | 24  | 0.0000  | 1.0081            | 0.0000        | 0.1293 | 0.0000  | 0.0000  |
| 26  | 11  | 0.4137  | 0.0000            | 0.0000        | 0.1097 | 3.5340  | 2.4140  |
| 27  | 26  | 0.0000  | 1.5034            | 0.0000        | 0.1280 | 0.0000  | 0.0000  |
| 28  | 10  | 0.8000  | 1.6434            | 0.0000        | 0.1317 | 0.0000  | 33.9083 |
| 29  | 9   | 0.4020  | 0.0000            | 0.0000        | 0.0788 | 0.0000  | 5.6123  |
| 30  | 29  | -0.0308 | 0.0000            | 0.0000        | 0.2751 | 3.3483  | 0.8045  |
| 31  | 30  | 0.0000  | 2.7539            | 0.0000        | 0.1050 | 0.0000  | 0.0000  |
| 32  | 29  | 0.3562  | 0.0000            | 0.0000        | 0.2761 | 0.0000  | 0.0000  |
| 33  | 32  | 0.3380  | 0.0000            | 0.0000        | 0.1081 | 3.1963  | 0.0000  |
| 34  | 33  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000  |
| 35  | 33  | 1.0911  | 3.9433            | 0.0000        | 0.0975 | 0.0000  | 0.0000  |
| 36  | 8   | 0.5364  | 0.0000            | 0.0000        | 1.0304 | 0.0000  | 2.7151  |
| 37  | 36  | -0.0400 | 0.0000            | 0.0000        | 0.1747 | 0.0000  | 0.0000  |
| 38  | 37  | -0.0230 | 0.0000            | 0.0000        | 0.3124 | 0.0000  | 0.0000  |
| 39  | 38  | 0.3424  | 0.0000            | 0.0000        | 0.4488 | 0.0000  | 0.0000  |
| 40  | 39  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000  |
| 41  | 39  | 1.1546  | 7.8449            | 0.0000        | 0.2735 | 0.0000  | 0.8253  |
| 42  | 39  | 1.3638  | 3.4866            | 0.0000        | 0.3155 | 0.0000  | 0.0000  |
| 43  | 37  | 0.4089  | 0.0000            | 0.0000        | 0.6499 | 0.0000  | 15.3111 |
| 44  | 43  | 0.0000  | 0.0000            | 0.0000        | 0.1623 | 0.0000  | 0.0000  |
| 45  | 44  | 0.2200  | 0.6122            | 0.0000        | 0.0851 | 0.0000  | 0.0000  |
| 46  | 36  | 0.5458  | 0.0000            | 0.0000        | 0.5171 | 0.0000  | 2.3062  |
| 47  | 46  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000  |
| 48  | 46  | 1.4000  | 7.8449            | 0.0000        | 0.5613 | 0.0000  | 0.0000  |
| 49  | 5   | 0.3000  | 0.0000            | 0.0000        | 0.1804 | 0.0000  | 6.8245  |
| 50  | 49  | 0.0141  | 0.0000            | 0.0000        | 0.2344 | 0.0000  | 0.0000  |
| 51  | 50  | 0.0000  | 0.0000            | 0.0000        | 0.6187 | 0.0000  | 0.0000  |
| 52  | 51  | -0.0365 | 0.0000            | 0.0000        | 0.1705 | 0.0000  | 0.0000  |
| 53  | 52  | 0.1060  | 0.0000            | 0.0000        | 0.1973 | 0.0000  | 0.3060  |



## C-VALUE DATA

System name : 0203I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 66. (Continued)

```

-----
Sec   Frm       Fit      Equip      Equip      Fric      Other      Balance
      Terminal  Thru
-----
54    53        0.0384    0.0000    0.0000    0.7627    0.0000    0.0000
55    54        0.3778    0.0000    0.0000    0.1589    0.0000    0.0000
56    55        0.0000    0.0000    0.0000    0.0000    0.0000    0.0000
57    55        1.4000    1.4281    0.0000    0.3811    0.0000    0.0000
58    53        1.0658    0.6145    0.0000    0.1529    0.0000    4.6496
59    52        0.8736    3.2133    0.0000    0.1086    0.0000    0.0000
60    51        0.4288    0.0000    0.0000    0.3197    0.0000    1.5167
61    60        0.1000    0.0000    0.0000    0.7255    0.0000    1.3413
62    61        0.0000    0.0000    0.0000    0.0000    0.0000    0.0000
63    61        1.4000    7.8449    0.0000    0.1844    0.0000    0.0000
64    60        0.9667    7.8449    0.0000    0.1844    0.0000    0.0000
65    50        0.8972    3.2133    0.0000    0.1113    0.0000    2.1574
66    49        0.8475    0.6145    0.0000    0.1583    0.0000    6.2190
*****

```



## FAN DATA PRINTOUT

System name : 0203I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 1361.1 L/s |
| Fan Static Pressure .....                     | :           | 0.1506 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.2120 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.2120 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.2120 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.1506 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.2120 kPa |
| Total Downstream Losses ..... | : | 0.2120 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0203I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 66.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.2120            | 0.1842             | 6.7      | 0.0278               | 22.6584 E+04       |
| 2   | 0.2102            | 0.1825             | 6.7      | 0.0278               | 22.6584 E+04       |
| 3   | 0.2019            | 0.1741             | 6.7      | 0.0278               | 22.6584 E+04       |
| 4   | 0.1898            | 0.1620             | 6.7      | 0.0278               | 22.6584 E+04       |
| 5   | 0.1736            | 0.1459             | 6.7      | 0.0278               | 22.6584 E+04       |
| 6   | 0.1636            | 0.1414             | 6.0      | 0.0221               | 17.9834 E+04       |
| 7   | 0.1346            | 0.1125             | 6.0      | 0.0221               | 17.9834 E+04       |
| 8   | 0.1228            | 0.1007             | 6.0      | 0.0221               | 17.9834 E+04       |
| 9   | 0.1142            | 0.0922             | 6.0      | 0.0220               | 16.7700 E+04       |
| 10  | 0.1143            | 0.0937             | 5.8      | 0.0206               | 13.6233 E+04       |
| 11  | 0.0816            | 0.0634             | 5.4      | 0.0182               | 12.8078 E+04       |
| 12  | 0.0789            | 0.0632             | 5.1      | 0.0157               | 9.4671 E+04        |
| 13  | 0.0694            | 0.0679             | 1.6      | 0.0016               | 2.9923 E+04        |
| 14  | 0.0218            | 0.0206             | 1.4      | 0.0012               | 2.6027 E+04        |
| 15  | 0.0041            | 0.0036             | 0.9      | 0.0005               | 1.3300 E+04        |
| 16  | 0.0002            | 0.0002             | 0.0      | 0.0000               | 0.0000 E+04        |
| 17  | 0.0040            | 0.0021             | 1.7      | 0.0018               | 1.8901 E+04        |
| 18  | 0.0217            | 0.0210             | 1.0      | 0.0007               | 1.7461 E+04        |
| 19  | 0.0211            | 0.0207             | 0.8      | 0.0003               | 1.2544 E+04        |
| 20  | 0.0001            | 0.0001             | 0.0      | 0.0000               | 0.0000 E+04        |
| 21  | 0.0207            | 0.0186             | 1.9      | 0.0021               | 2.0450 E+04        |
| 22  | 0.0133            | 0.0111             | 1.9      | 0.0022               | 1.2826 E+04        |
| 23  | 0.0058            | 0.0041             | 1.7      | 0.0017               | 1.1343 E+04        |
| 24  | 0.0439            | 0.0366             | 3.5      | 0.0073               | 6.4748 E+04        |
| 25  | 0.0135            | 0.0016             | 4.4      | 0.0119               | 7.5414 E+04        |
| 26  | 0.0591            | 0.0509             | 3.7      | 0.0082               | 6.8449 E+04        |
| 27  | 0.0217            | 0.0084             | 4.7      | 0.0133               | 7.9724 E+04        |
| 28  | 0.0197            | 0.0179             | 1.7      | 0.0018               | 1.8901 E+04        |
| 29  | 0.0500            | 0.0385             | 4.3      | 0.0115               | 7.8821 E+04        |
| 30  | 0.0366            | 0.0322             | 2.7      | 0.0045               | 5.0575 E+04        |
| 31  | 0.0208            | 0.0135             | 3.4      | 0.0073               | 5.8906 E+04        |
| 32  | 0.0402            | 0.0371             | 2.3      | 0.0031               | 3.3812 E+04        |
| 33  | 0.0353            | 0.0322             | 2.3      | 0.0031               | 3.3812 E+04        |
| 34  | 0.0013            | 0.0013             | 0.0      | 0.0000               | 0.0000 E+04        |
| 35  | 0.0239            | 0.0188             | 2.9      | 0.0051               | 3.9381 E+04        |
| 36  | 0.0650            | 0.0469             | 5.4      | 0.0181               | 6.1008 E+04        |
| 37  | 0.0345            | 0.0231             | 4.3      | 0.0115               | 4.8523 E+04        |
| 38  | 0.0332            | 0.0285             | 2.8      | 0.0047               | 3.1213 E+04        |
| 39  | 0.0320            | 0.0273             | 2.8      | 0.0047               | 3.1213 E+04        |
| 40  | 0.0019            | 0.0019             | 0.0      | 0.0000               | 0.0000 E+04        |
| 41  | 0.0262            | 0.0236             | 2.0      | 0.0025               | 1.7450 E+04        |
| 42  | 0.0283            | 0.0225             | 3.1      | 0.0057               | 2.6176 E+04        |
| 43  | 0.0109            | 0.0095             | 1.5      | 0.0015               | 1.7310 E+04        |
| 44  | 0.0053            | 0.0004             | 2.8      | 0.0049               | 2.4193 E+04        |
| 45  | 0.0045            | -0.0004            | 2.8      | 0.0049               | 2.4193 E+04        |
| 46  | 0.0328            | 0.0320             | 1.1      | 0.0008               | 1.2485 E+04        |
| 47  | 0.0003            | 0.0003             | 0.0      | 0.0000               | 0.0000 E+04        |
| 48  | 0.0225            | 0.0199             | 2.0      | 0.0025               | 1.7450 E+04        |
| 49  | 0.0583            | 0.0429             | 5.0      | 0.0154               | 10.4618 E+04       |
| 50  | 0.0472            | 0.0358             | 4.3      | 0.0114               | 8.9825 E+04        |
| 51  | 0.0443            | 0.0297             | 4.9      | 0.0147               | 8.1678 E+04        |



PRESSURE LOSS DATA II

System name : 0203I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 66. (Continued)

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 52  | 0.0353            | 0.0208             | 4.9      | 0.0145               | 7.2732 E+04        |
| 53  | 0.0323            | 0.0289             | 2.4      | 0.0034               | 3.5276 E+04        |
| 54  | 0.0301            | 0.0284             | 1.7      | 0.0017               | 1.8728 E+04        |
| 55  | 0.0286            | 0.0269             | 1.7      | 0.0017               | 1.8728 E+04        |
| 56  | 0.0007            | 0.0007             | 0.0      | 0.0000               | 0.0000 E+04        |
| 57  | 0.0277            | 0.0137             | 4.8      | 0.0140               | 3.2720 E+04        |
| 58  | 0.0074            | 0.0025             | 2.8      | 0.0049               | 3.0909 E+04        |
| 59  | 0.0333            | 0.0271             | 3.2      | 0.0062               | 4.3626 E+04        |
| 60  | 0.0307            | 0.0276             | 2.2      | 0.0030               | 2.4971 E+04        |
| 61  | 0.0224            | 0.0216             | 1.1      | 0.0008               | 1.2485 E+04        |
| 62  | 0.0003            | 0.0003             | 0.0      | 0.0000               | 0.0000 E+04        |
| 63  | 0.0215            | 0.0190             | 2.0      | 0.0025               | 1.7450 E+04        |
| 64  | 0.0234            | 0.0209             | 2.0      | 0.0025               | 1.7450 E+04        |
| 65  | 0.0309            | 0.0247             | 3.2      | 0.0062               | 4.3626 E+04        |
| 66  | 0.0168            | 0.0120             | 2.8      | 0.0049               | 3.0909 E+04        |

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## PRESSURE LOSS DATA

System name : 0203I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 66.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0017        |
| 2   | 0.0067      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0084        |
| 3   | 0.0067      | 0.0000                    | 0.0000                | 0.0054       | 0.0000        | 0.0000          | 0.0121        |
| 4   | 0.0067      | 0.0000                    | 0.0000                | 0.0095       | 0.0000        | 0.0000          | 0.0162        |
| 5   | 0.0067      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0100        |
| 6   | 0.0075      | 0.0000                    | 0.0000                | 0.0025       | 0.0190        | 0.0000          | 0.0290        |
| 7   | 0.0053      | 0.0000                    | 0.0000                | 0.0064       | 0.0000        | 0.0000          | 0.0117        |
| 8   | 0.0053      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0086        |
| 9   | -0.0003     | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | -0.0001       |
| 10  | -0.0008     | 0.0000                    | 0.0000                | 0.0054       | 0.0280        | 0.0000          | 0.0326        |
| 11  | 0.0001      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0027        |
| 12  | 0.0016      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0095        |
| 13  | 0.0032      | 0.0000                    | 0.0000                | 0.0004       | 0.0440        | 0.0000          | 0.0476        |
| 14  | 0.0000      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0001        |
| 15  | 0.0000      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0175          | 0.0177        |
| 16  | 0.0002      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0038          | 0.0040        |
| 17  | 0.0007      | 0.0030                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0040        |
| 18  | 0.0005      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0006        |
| 19  | 0.0000      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0003        |
| 20  | 0.0001      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0206          | 0.0207        |
| 21  | 0.0005      | 0.0200                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0207        |
| 22  | 0.0009      | 0.0120                    | 0.0000                | 0.0004       | 0.0000        | 0.0078          | 0.0211        |
| 23  | 0.0016      | 0.0030                    | 0.0000                | 0.0012       | 0.0000        | 0.0160          | 0.0218        |
| 24  | 0.0046      | 0.0000                    | 0.0000                | 0.0008       | 0.0250        | 0.0255          | 0.0559        |
| 25  | 0.0000      | 0.0120                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0135        |
| 26  | 0.0075      | 0.0000                    | 0.0000                | 0.0009       | 0.0290        | 0.0198          | 0.0572        |
| 27  | 0.0000      | 0.0200                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0217        |
| 28  | 0.0165      | 0.0030                    | 0.0000                | 0.0002       | 0.0000        | 0.0619          | 0.0816        |
| 29  | 0.0088      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0643          | 0.0740        |
| 30  | -0.0004     | 0.0000                    | 0.0000                | 0.0012       | 0.0150        | 0.0036          | 0.0195        |
| 31  | 0.0000      | 0.0200                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0208        |
| 32  | 0.0041      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0049        |
| 33  | 0.0011      | 0.0000                    | 0.0000                | 0.0003       | 0.0100        | 0.0000          | 0.0114        |
| 34  | 0.0013      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0227          | 0.0239        |
| 35  | 0.0034      | 0.0200                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0239        |
| 36  | 0.0119      | 0.0000                    | 0.0000                | 0.0187       | 0.0000        | 0.0492          | 0.0797        |
| 37  | -0.0007     | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0013        |
| 38  | -0.0003     | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0012        |
| 39  | 0.0016      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0037        |
| 40  | 0.0019      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0264          | 0.0283        |
| 41  | 0.0055      | 0.0200                    | 0.0000                | 0.0007       | 0.0000        | 0.0021          | 0.0283        |
| 42  | 0.0065      | 0.0200                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0283        |
| 43  | 0.0047      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0223          | 0.0280        |
| 44  | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 45  | 0.0011      | 0.0030                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0045        |
| 46  | 0.0099      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0017          | 0.0120        |
| 47  | 0.0003      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0222          | 0.0225        |
| 48  | 0.0011      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0225        |
| 49  | 0.0083      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.1053          | 0.1164        |
| 50  | 0.0002      | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0000          | 0.0029        |



## PRESSURE LOSS DATA

System name : 0203I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 66. (Continued)

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 51  | 0.0000      | 0.0000                    | 0.0000                | 0.0091       | 0.0000        | 0.0000          | 0.0091        |
| 52  | -0.0005     | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0019        |
| 53  | 0.0015      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0010          | 0.0032        |
| 54  | 0.0001      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0014        |
| 55  | 0.0006      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0009        |
| 56  | 0.0007      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0270          | 0.0277        |
| 57  | 0.0024      | 0.0200                    | 0.0000                | 0.0053       | 0.0000        | 0.0000          | 0.0277        |
| 58  | 0.0036      | 0.0030                    | 0.0000                | 0.0007       | 0.0000        | 0.0227          | 0.0301        |
| 59  | 0.0126      | 0.0200                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0333        |
| 60  | 0.0063      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0046          | 0.0119        |
| 61  | 0.0003      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0010          | 0.0019        |
| 62  | 0.0003      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0212          | 0.0215        |
| 63  | 0.0011      | 0.0200                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0215        |
| 64  | 0.0029      | 0.0200                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0234        |
| 65  | 0.0102      | 0.0200                    | 0.0000                | 0.0007       | 0.0000        | 0.0134          | 0.0443        |
| 66  | 0.0131      | 0.0030                    | 0.0000                | 0.0008       | 0.0000        | 0.0304          | 0.0472        |

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## SIZE DATA

System name : 0203I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 66.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1361.1          | 6.7      | 450.0               | 450.0  | 450.0                 | 450.0  |
| 2   | REC   | 1361.1          | 6.7      | 450.0               | 450.0  | 450.0                 | 450.0  |
| 3   | REC   | 1361.1          | 6.7      | 450.0               | 450.0  | 450.0                 | 450.0  |
| 4   | REC   | 1361.1          | 6.7      | 450.0               | 450.0  | 450.0                 | 450.0  |
| 5   | REC   | 1361.1          | 6.7      | 450.0               | 450.0  | 450.0                 | 450.0  |
| 6   | REC   | 960.2           | 6.0      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 7   | REC   | 960.2           | 6.0      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 8   | REC   | 960.2           | 6.0      | 400.0               | 400.0  | 400.0                 | 400.0  |
| 9   | REC   | 838.1           | 6.0      | 400.0               | 350.0  | 400.0                 | 350.0  |
| 10  | REC   | 579.0           | 5.8      | 250.0               | 400.0  | 250.0                 | 400.0  |
| 11  | REC   | 544.4           | 5.4      | 250.0               | 400.0  | 250.0                 | 400.0  |
| 12  | REC   | 315.9           | 5.1      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 13  | REC   | 99.9            | 1.6      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 14  | REC   | 86.9            | 1.4      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 15  | REC   | 34.7            | 0.9      | 150.0               | 250.0  | 150.0                 | 250.0  |
| 16  | REC   | 0.0             | 0.0      | 150.0               | 250.0  | 150.0                 | 250.0  |
| 17  | RND   | 34.7            | 1.7      | -----               | 160.0  | -----                 | 160.0  |
| 18  | REC   | 52.2            | 1.0      | 200.0               | 250.0  | 200.0                 | 250.0  |
| 19  | REC   | 37.5            | 0.8      | 200.0               | 250.0  | 200.0                 | 250.0  |
| 20  | REC   | 0.0             | 0.0      | 200.0               | 250.0  | 200.0                 | 250.0  |
| 21  | RND   | 37.5            | 1.9      | -----               | 160.0  | -----                 | 160.0  |
| 22  | RND   | 14.7            | 1.9      | -----               | 100.0  | -----                 | 100.0  |
| 23  | RND   | 13.0            | 1.7      | -----               | 100.0  | -----                 | 100.0  |
| 24  | REC   | 216.1           | 3.5      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 25  | RND   | 216.1           | 4.4      | -----               | 250.0  | -----                 | 250.0  |
| 26  | REC   | 228.4           | 3.7      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 27  | RND   | 228.4           | 4.7      | -----               | 250.0  | -----                 | 250.0  |
| 28  | RND   | 34.7            | 1.7      | -----               | 160.0  | -----                 | 160.0  |
| 29  | REC   | 259.1           | 4.3      | 300.0               | 200.0  | 300.0                 | 200.0  |
| 30  | REC   | 168.8           | 2.7      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 31  | RND   | 168.8           | 3.4      | -----               | 250.0  | -----                 | 250.0  |
| 32  | REC   | 90.3            | 2.3      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 33  | REC   | 90.3            | 2.3      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 34  | REC   | 0.0             | 0.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 35  | RND   | 90.3            | 2.9      | -----               | 200.0  | -----                 | 200.0  |
| 36  | REC   | 122.2           | 5.4      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 37  | REC   | 97.2            | 4.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 38  | REC   | 62.5            | 2.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 39  | REC   | 62.5            | 2.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 40  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 41  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 42  | RND   | 37.5            | 3.1      | -----               | 125.0  | -----                 | 125.0  |
| 43  | REC   | 34.7            | 1.5      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 44  | RND   | 34.7            | 2.8      | -----               | 125.0  | -----                 | 125.0  |
| 45  | RND   | 34.7            | 2.8      | -----               | 125.0  | -----                 | 125.0  |
| 46  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 47  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 48  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 49  | REC   | 400.9           | 5.0      | 400.0               | 200.0  | 400.0                 | 200.0  |

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## SIZE DATA

System name : 0203I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. SIZE DATA FOR SECTIONS 1 THROUGH 66. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----><br>Width | Height | <----- Airflow -----><br>Width | Height |
|-----|-------|-----------------|----------|------------------------------|--------|--------------------------------|--------|
|     |       | L/s             | m/s      | mm                           | mm     | mm                             | mm     |
| 50  | REC   | 344.2           | 4.3      | 400.0                        | 200.0  | 400.0                          | 200.0  |
| 51  | REC   | 244.2           | 4.9      | 250.0                        | 200.0  | 250.0                          | 200.0  |
| 52  | REC   | 194.2           | 4.9      | 200.0                        | 200.0  | 200.0                          | 200.0  |
| 53  | REC   | 94.2            | 2.4      | 200.0                        | 200.0  | 200.0                          | 200.0  |
| 54  | REC   | 37.5            | 1.7      | 150.0                        | 150.0  | 150.0                          | 150.0  |
| 55  | REC   | 37.5            | 1.7      | 150.0                        | 150.0  | 150.0                          | 150.0  |
| 56  | REC   | 0.0             | 0.0      | 150.0                        | 150.0  | 150.0                          | 150.0  |
| 57  | RND   | 37.5            | 4.8      | -----                        | 100.0  | -----                          | 100.0  |
| 58  | RND   | 56.7            | 2.8      | -----                        | 160.0  | -----                          | 160.0  |
| 59  | RND   | 100.0           | 3.2      | -----                        | 200.0  | -----                          | 200.0  |
| 60  | REC   | 50.0            | 2.2      | 150.0                        | 150.0  | 150.0                          | 150.0  |
| 61  | REC   | 25.0            | 1.1      | 150.0                        | 150.0  | 150.0                          | 150.0  |
| 62  | REC   | 0.0             | 0.0      | 150.0                        | 150.0  | 150.0                          | 150.0  |
| 63  | RND   | 25.0            | 2.0      | -----                        | 125.0  | -----                          | 125.0  |
| 64  | RND   | 25.0            | 2.0      | -----                        | 125.0  | -----                          | 125.0  |
| 65  | RND   | 100.0           | 3.2      | -----                        | 200.0  | -----                          | 200.0  |
| 66  | RND   | 56.7            | 2.8      | -----                        | 160.0  | -----                          | 160.0  |

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## SIZE DATA

System name : 0204I

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 42.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1766.4          | 5.9      | 750.0               | 400.0  | 750.0                 | 400.0  |
| 2   | REC   | 1766.4          | 5.9      | 750.0               | 400.0  | 750.0                 | 400.0  |
| 3   | REC   | 1766.4          | 5.9      | 750.0               | 400.0  | 750.0                 | 400.0  |
| 4   | REC   | 1766.4          | 5.9      | 750.0               | 400.0  | 750.0                 | 400.0  |
| 5   | REC   | 1766.4          | 5.9      | 750.0               | 400.0  | 750.0                 | 400.0  |
| 6   | REC   | 1766.4          | 5.9      | 750.0               | 400.0  | 750.0                 | 400.0  |
| 7   | REC   | 1766.4          | 5.9      | 750.0               | 400.0  | 750.0                 | 400.0  |
| 8   | REC   | 1411.8          | 5.9      | 600.0               | 400.0  | 600.0                 | 400.0  |
| 9   | REC   | 1057.2          | 5.3      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 10  | REC   | 702.6           | 5.0      | 400.0               | 350.0  | 400.0                 | 350.0  |
| 11  | REC   | 348.0           | 4.6      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 12  | REC   | 348.0           | 4.6      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 13  | REC   | 232.0           | 4.6      | 200.0               | 250.0  | 200.0                 | 250.0  |
| 14  | REC   | 232.0           | 4.6      | 200.0               | 250.0  | 200.0                 | 250.0  |
| 15  | REC   | 232.0           | 4.6      | 200.0               | 250.0  | 200.0                 | 250.0  |
| 16  | REC   | 116.0           | 2.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 17  | REC   | 116.0           | 2.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 18  | REC   | 116.0           | 2.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 19  | REC   | 177.3           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 20  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 21  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 22  | REC   | 177.3           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 23  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 24  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 25  | REC   | 177.3           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 26  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 27  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 28  | REC   | 177.3           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 29  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 30  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 31  | REC   | 177.3           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 32  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 33  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 34  | REC   | 177.3           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 35  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 36  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 37  | REC   | 177.3           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 38  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 39  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 40  | REC   | 177.3           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 41  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 42  | REC   | 88.7            | 3.0      | 200.0               | 150.0  | 200.0                 | 150.0  |

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## PRESSURE LOSS DATA

System name : 0204I

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 42.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0018        |
| 2   | 0.0061      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0072        |
| 3   | 0.0061      | 0.0000                    | 0.0000                | 0.0059       | 0.0000        | 0.0000          | 0.0120        |
| 4   | 0.0061      | 0.0000                    | 0.0000                | 0.0013       | 0.0410        | 0.0000          | 0.0484        |
| 5   | 0.0061      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0077        |
| 6   | 0.0061      | 0.0000                    | 0.0000                | 0.0046       | 0.0000        | 0.0000          | 0.0107        |
| 7   | 0.0061      | 0.0000                    | 0.0000                | 0.0029       | 0.0000        | 0.0000          | 0.0089        |
| 8   | 0.0000      | 0.0000                    | 0.0000                | 0.0054       | 0.0000        | 0.0000          | 0.0054        |
| 9   | 0.0002      | 0.0000                    | 0.0000                | 0.0049       | 0.0000        | 0.0000          | 0.0051        |
| 10  | 0.0001      | 0.0000                    | 0.0000                | 0.0055       | 0.0000        | 0.0000          | 0.0056        |
| 11  | 0.0001      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0026        |
| 12  | 0.0039      | 0.0000                    | 0.0000                | 0.0074       | 0.0000        | 0.0000          | 0.0113        |
| 13  | 0.0008      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0023        |
| 14  | 0.0037      | 0.0000                    | 0.0000                | 0.0100       | 0.0000        | 0.0000          | 0.0137        |
| 15  | 0.0037      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0055        |
| 16  | 0.0036      | 0.0200                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0264        |
| 17  | 0.0036      | 0.0200                    | 0.0000                | 0.0007       | 0.0000        | 0.0022          | 0.0264        |
| 18  | 0.0046      | 0.0200                    | 0.0000                | 0.0017       | 0.0000        | 0.0216          | 0.0479        |
| 19  | 0.0175      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0206          | 0.0389        |
| 20  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 21  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 22  | 0.0175      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0206          | 0.0389        |
| 23  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 24  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 25  | 0.0219      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0219          | 0.0445        |
| 26  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 27  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 28  | 0.0219      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0219          | 0.0445        |
| 29  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 30  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 31  | 0.0273      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0215          | 0.0496        |
| 32  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 33  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 34  | 0.0273      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0215          | 0.0496        |
| 35  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 36  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 37  | 0.0274      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0269          | 0.0550        |
| 38  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 39  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 40  | 0.0274      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0269          | 0.0550        |
| 41  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |
| 42  | 0.0015      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0229        |

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## C-VALUE DATA

System name : 0204I

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 42.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0833 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2844 | 0.0000            | 0.0000        | 0.0555 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2844 | 0.0000            | 0.0000        | 0.2775 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2844 | 0.0000            | 0.0000        | 0.0612 | 1.9252 | 0.0000  |
| 5   | 4   | 0.2844 | 0.0000            | 0.0000        | 0.0762 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2844 | 0.0000            | 0.0000        | 0.2177 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2844 | 0.0000            | 0.0000        | 0.1345 | 0.0000 | 0.0000  |
| 8   | 7   | 0.0001 | 0.0000            | 0.0000        | 0.2536 | 0.0000 | 0.0000  |
| 9   | 8   | 0.0101 | 0.0000            | 0.0000        | 0.2860 | 0.0000 | 0.0000  |
| 10  | 9   | 0.0051 | 0.0000            | 0.0000        | 0.3552 | 0.0000 | 0.0000  |
| 11  | 10  | 0.0075 | 0.0000            | 0.0000        | 0.1855 | 0.0000 | 0.0000  |
| 12  | 11  | 0.2947 | 0.0000            | 0.0000        | 0.5584 | 0.0000 | 0.0000  |
| 13  | 12  | 0.0618 | 0.0000            | 0.0000        | 0.1146 | 0.0000 | 0.0000  |
| 14  | 13  | 0.2779 | 0.0000            | 0.0000        | 0.7544 | 0.0000 | 0.0000  |
| 15  | 14  | 0.2779 | 0.0000            | 0.0000        | 0.1378 | 0.0000 | 0.0000  |
| 16  | 15  | 0.2700 | 3.8713            | 0.0000        | 0.5484 | 0.0000 | 0.0000  |
| 17  | 15  | 0.2700 | 3.8713            | 0.0000        | 0.1311 | 0.0000 | 0.4173  |
| 18  | 12  | 0.3493 | 3.8713            | 0.0000        | 0.3203 | 0.0000 | 4.1839  |
| 19  | 10  | 1.1340 | 0.0000            | 0.0000        | 0.1513 | 0.0000 | 4.1650  |
| 20  | 19  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 21  | 19  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 22  | 10  | 1.1340 | 0.0000            | 0.0000        | 0.1513 | 0.0000 | 4.1650  |
| 23  | 22  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 24  | 22  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 25  | 9   | 1.2733 | 0.0000            | 0.0000        | 0.1513 | 0.0000 | 4.4223  |
| 26  | 25  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 27  | 25  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 28  | 9   | 1.2733 | 0.0000            | 0.0000        | 0.1513 | 0.0000 | 4.4222  |
| 29  | 28  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 30  | 28  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 31  | 8   | 1.2863 | 0.0000            | 0.0000        | 0.1513 | 0.0000 | 4.3489  |
| 32  | 31  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 33  | 31  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 34  | 8   | 1.2863 | 0.0000            | 0.0000        | 0.1513 | 0.0000 | 4.3489  |
| 35  | 34  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 36  | 34  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 37  | 7   | 1.2855 | 0.0000            | 0.0000        | 0.1513 | 0.0000 | 5.4329  |
| 38  | 37  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 39  | 37  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 40  | 7   | 1.2855 | 0.0000            | 0.0000        | 0.1513 | 0.0000 | 5.4329  |
| 41  | 40  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |
| 42  | 40  | 0.3000 | 3.7285            | 0.0000        | 0.2566 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0204I

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 1766.4 L/s |
| Fan Static Pressure .....                     | :           | 0.1131 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.1745 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.1745 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.1745 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.1131 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.1745 kPa |
| Total Downstream Losses ..... | : | 0.1745 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0204I

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 42.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.1745            | 0.1532             | 5.9      | 0.0213               | 23.8673 E+04       |
| 2   | 0.1727            | 0.1514             | 5.9      | 0.0213               | 23.8673 E+04       |
| 3   | 0.1655            | 0.1442             | 5.9      | 0.0213               | 23.8673 E+04       |
| 4   | 0.1535            | 0.1322             | 5.9      | 0.0213               | 23.8673 E+04       |
| 5   | 0.1051            | 0.0838             | 5.9      | 0.0213               | 23.8673 E+04       |
| 6   | 0.0975            | 0.0762             | 5.9      | 0.0213               | 23.8673 E+04       |
| 7   | 0.0868            | 0.0655             | 5.9      | 0.0213               | 23.8673 E+04       |
| 8   | 0.0778            | 0.0566             | 5.9      | 0.0213               | 21.4785 E+04       |
| 9   | 0.0724            | 0.0553             | 5.3      | 0.0172               | 17.6815 E+04       |
| 10  | 0.0673            | 0.0519             | 5.0      | 0.0155               | 14.0590 E+04       |
| 11  | 0.0617            | 0.0485             | 4.6      | 0.0132               | 9.5093 E+04        |
| 12  | 0.0592            | 0.0459             | 4.6      | 0.0132               | 9.5093 E+04        |
| 13  | 0.0479            | 0.0347             | 4.6      | 0.0132               | 7.7603 E+04        |
| 14  | 0.0456            | 0.0323             | 4.6      | 0.0132               | 7.7603 E+04        |
| 15  | 0.0319            | 0.0187             | 4.6      | 0.0132               | 7.7603 E+04        |
| 16  | 0.0264            | 0.0212             | 2.9      | 0.0052               | 4.3449 E+04        |
| 17  | 0.0242            | 0.0191             | 2.9      | 0.0052               | 4.3449 E+04        |
| 18  | 0.0263            | 0.0211             | 2.9      | 0.0052               | 4.3449 E+04        |
| 19  | 0.0412            | 0.0362             | 2.8      | 0.0049               | 5.3128 E+04        |
| 20  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 21  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 22  | 0.0412            | 0.0362             | 2.8      | 0.0049               | 5.3128 E+04        |
| 23  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 24  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 25  | 0.0455            | 0.0405             | 2.8      | 0.0049               | 5.3128 E+04        |
| 26  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 27  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 28  | 0.0455            | 0.0405             | 2.8      | 0.0049               | 5.3128 E+04        |
| 29  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 30  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 31  | 0.0510            | 0.0460             | 2.8      | 0.0049               | 5.3128 E+04        |
| 32  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 33  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 34  | 0.0510            | 0.0460             | 2.8      | 0.0049               | 5.3128 E+04        |
| 35  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 36  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 37  | 0.0510            | 0.0460             | 2.8      | 0.0049               | 5.3128 E+04        |
| 38  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 39  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 40  | 0.0510            | 0.0460             | 2.8      | 0.0049               | 5.3128 E+04        |
| 41  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |
| 42  | 0.0229            | 0.0175             | 3.0      | 0.0054               | 3.8243 E+04        |

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## SIZE DATA

System name : 0204R

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 27.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1589.2          | 6.1      | 650.0               | 400.0  | 650.0                 | 400.0  |
| 2   | REC   | 1589.2          | 6.1      | 650.0               | 400.0  | 650.0                 | 400.0  |
| 3   | REC   | 1589.2          | 6.1      | 650.0               | 400.0  | 650.0                 | 400.0  |
| 4   | REC   | 1589.2          | 6.1      | 650.0               | 400.0  | 650.0                 | 400.0  |
| 5   | REC   | 1589.2          | 6.1      | 650.0               | 400.0  | 650.0                 | 400.0  |
| 6   | REC   | 1589.2          | 6.1      | 650.0               | 400.0  | 650.0                 | 400.0  |
| 7   | REC   | 1589.2          | 6.1      | 650.0               | 400.0  | 650.0                 | 400.0  |
| 8   | REC   | 1589.2          | 6.1      | 650.0               | 400.0  | 650.0                 | 400.0  |
| 9   | REC   | 1589.2          | 6.1      | 650.0               | 400.0  | 650.0                 | 400.0  |
| 10  | REC   | 1078.7          | 5.4      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 11  | REC   | 568.2           | 5.1      | 450.0               | 250.0  | 450.0                 | 250.0  |
| 12  | REC   | 312.9           | 4.5      | 350.0               | 200.0  | 350.0                 | 200.0  |
| 13  | REC   | 312.9           | 4.5      | 350.0               | 200.0  | 350.0                 | 200.0  |
| 14  | REC   | 208.6           | 4.2      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 15  | REC   | 208.6           | 4.2      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 16  | REC   | 208.6           | 4.2      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 17  | REC   | 104.3           | 3.5      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 18  | REC   | 104.3           | 3.5      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 19  | REC   | 104.3           | 3.5      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 20  | REC   | 255.3           | 4.1      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 21  | REC   | 255.3           | 4.1      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 22  | REC   | 510.5           | 4.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 23  | REC   | 255.3           | 4.1      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 24  | REC   | 255.3           | 4.1      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 25  | REC   | 510.5           | 4.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 26  | REC   | 255.3           | 4.1      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 27  | REC   | 255.3           | 4.1      | 250.0               | 250.0  | 250.0                 | 250.0  |

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## PRESSURE LOSS DATA

System name : 0204R

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 27.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0021        |
| 2   | 0.0064      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0077        |
| 3   | 0.0064      | 0.0000                    | 0.0000                | 0.0069       | 0.0000        | 0.0000          | 0.0132        |
| 4   | 0.0064      | 0.0000                    | 0.0000                | 0.0010       | 0.0400        | 0.0000          | 0.0473        |
| 5   | 0.0064      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0083        |
| 6   | 0.0064      | 0.0000                    | 0.0000                | 0.0066       | 0.0000        | 0.0000          | 0.0130        |
| 7   | 0.0064      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0083        |
| 8   | 0.0064      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0074        |
| 9   | 0.0064      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0085        |
| 10  | 0.0091      | 0.0000                    | 0.0000                | 0.0097       | 0.0000        | 0.0000          | 0.0188        |
| 11  | 0.0091      | 0.0000                    | 0.0000                | 0.0065       | 0.0000        | 0.0000          | 0.0156        |
| 12  | 0.0077      | 0.0000                    | 0.0000                | 0.0029       | 0.0000        | 0.0000          | 0.0107        |
| 13  | 0.0040      | 0.0000                    | 0.0000                | 0.0075       | 0.0000        | 0.0000          | 0.0116        |
| 14  | 0.0050      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0073        |
| 15  | 0.0034      | 0.0000                    | 0.0000                | 0.0101       | 0.0000        | 0.0000          | 0.0135        |
| 16  | 0.0034      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0041        |
| 17  | 0.0021      | 0.0100                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0153        |
| 18  | 0.0021      | 0.0100                    | 0.0000                | 0.0032       | 0.0000        | 0.0000          | 0.0153        |
| 19  | -0.0013     | 0.0100                    | 0.0000                | 0.0058       | 0.0000        | 0.0257          | 0.0402        |
| 20  | 0.0065      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0395          | 0.0466        |
| 21  | 0.0030      | 0.0100                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0158        |
| 22  | 0.0085      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0531          | 0.0621        |
| 23  | 0.0025      | 0.0100                    | 0.0000                | 0.0028       | 0.0000        | 0.0006          | 0.0159        |
| 24  | 0.0025      | 0.0100                    | 0.0000                | 0.0034       | 0.0000        | 0.0000          | 0.0159        |
| 25  | -0.0025     | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0836          | 0.0815        |
| 26  | 0.0025      | 0.0100                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0153        |
| 27  | 0.0025      | 0.0100                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0153        |

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## C-VALUE DATA

System name : 0204R

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 27.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0898 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2769  | 0.0000            | 0.0000        | 0.0599 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2769  | 0.0000            | 0.0000        | 0.2993 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2769  | 0.0000            | 0.0000        | 0.0419 | 1.7430 | 0.0000  |
| 5   | 4   | 0.2769  | 0.0000            | 0.0000        | 0.0841 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2769  | 0.0000            | 0.0000        | 0.2894 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2769  | 0.0000            | 0.0000        | 0.0851 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2769  | 0.0000            | 0.0000        | 0.0476 | 0.0000 | 0.0000  |
| 9   | 8   | 0.2769  | 0.0000            | 0.0000        | 0.0914 | 0.0000 | 0.0000  |
| 10  | 9   | 0.3970  | 0.0000            | 0.0000        | 0.5414 | 0.0000 | 0.0000  |
| 11  | 10  | 0.5113  | 0.0000            | 0.0000        | 0.4120 | 0.0000 | 0.0000  |
| 12  | 11  | 0.4945  | 0.0000            | 0.0000        | 0.2402 | 0.0000 | 0.0000  |
| 13  | 12  | 0.3295  | 0.0000            | 0.0000        | 0.6131 | 0.0000 | 0.0000  |
| 14  | 13  | 0.4067  | 0.0000            | 0.0000        | 0.2166 | 0.0000 | 0.0000  |
| 15  | 14  | 0.3211  | 0.0000            | 0.0000        | 0.9417 | 0.0000 | 0.0000  |
| 16  | 15  | 0.3211  | 0.0000            | 0.0000        | 0.0590 | 0.0000 | 0.0000  |
| 17  | 16  | 0.1980  | 1.3468            | 0.0000        | 0.4242 | 0.0000 | 0.0046  |
| 18  | 16  | 0.1980  | 1.3468            | 0.0000        | 0.4288 | 0.0000 | 0.0000  |
| 19  | 13  | -0.1067 | 1.3468            | 0.0000        | 0.7828 | 0.0000 | 3.4575  |
| 20  | 11  | 0.4130  | 0.0000            | 0.0000        | 0.0652 | 0.0000 | 3.8553  |
| 21  | 20  | 0.2928  | 0.9760            | 0.0000        | 0.2735 | 0.0000 | 0.0000  |
| 22  | 10  | 0.4778  | 0.0000            | 0.0000        | 0.0432 | 0.0000 | 4.7757  |
| 23  | 22  | 0.2233  | 0.9760            | 0.0000        | 0.2735 | 0.0000 | 0.0620  |
| 24  | 22  | 0.2233  | 0.9760            | 0.0000        | 0.3355 | 0.0000 | 0.0000  |
| 25  | 9   | -0.1089 | 0.0000            | 0.0000        | 0.0432 | 0.0000 | 7.5153  |
| 26  | 25  | 0.2233  | 0.9760            | 0.0000        | 0.2735 | 0.0000 | 0.0000  |
| 27  | 25  | 0.2233  | 0.9760            | 0.0000        | 0.2735 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0204R 18-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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## Fan Selection Parameters (Return System)

```

-----
Fan Airflow Rate ..... : 1589.2 L/s
Fan Static Pressure ..... : 0.1512 kPa
-----
Total Pressure Difference Across Fan ..... : 0.2126 kPa
Static Pressure Difference Across Fan ..... : 0.2126 kPa
Velocity Pressure Difference Across Fan ..... : 0.0000 kPa
-----
Fan Inlet / Outlet Data                At Inlet                At Outlet
-----
Total Pressure ..... : -0.2126 kPa                0.0000 kPa
Static Pressure ..... : -0.2741 kPa                -0.0614 kPa
Velocity Pressure ..... : 0.0614 kPa                0.0614 kPa
Velocity ..... : 10.0 m/s                10.0 m/s
-----

```

## Losses Upstream of Fan

```

-----
Return System Loss ..... : -0.2126 kPa
Filter Loss ..... : 0.0000 kPa
Other Upstream Losses ..... : 0.0000 kPa
Total Upstream Losses ..... : -0.2126 kPa
-----

```

## Losses Downstream of Fan

```

-----
Filter Loss ..... : 0.0000 kPa
Other Downstream Losses ..... : 0.0000 kPa
Total Downstream Losses ..... : 0.0000 kPa
-----

```

## Psychrometric Properties

```

-----
Altitude ..... : 0.0 m
Temperature ..... : 12.8 C
Relative Humidity ..... : 100.0 %
Density ..... : 1.2296 kg/cu m
Viscosity ..... : 0.0040 sqm/s
Barometric Pressure ..... : 101.3260 kPa
Vapor Pressure ..... : 1.4734 kPa
-----
*****

```



## PRESSURE LOSS DATA II

System name : 0204R

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 27.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.2126           | -0.2356            | 6.1      | 0.0229               | 23.1773 E+04       |
| 2   | -0.2106           | -0.2335            | 6.1      | 0.0229               | 23.1773 E+04       |
| 3   | -0.2028           | -0.2258            | 6.1      | 0.0229               | 23.1773 E+04       |
| 4   | -0.1896           | -0.2126            | 6.1      | 0.0229               | 23.1773 E+04       |
| 5   | -0.1423           | -0.1653            | 6.1      | 0.0229               | 23.1773 E+04       |
| 6   | -0.1340           | -0.1570            | 6.1      | 0.0229               | 23.1773 E+04       |
| 7   | -0.1210           | -0.1440            | 6.1      | 0.0229               | 23.1773 E+04       |
| 8   | -0.1127           | -0.1357            | 6.1      | 0.0229               | 23.1773 E+04       |
| 9   | -0.1053           | -0.1282            | 6.1      | 0.0229               | 23.1773 E+04       |
| 10  | -0.0968           | -0.1147            | 5.4      | 0.0179               | 18.0403 E+04       |
| 11  | -0.0780           | -0.0937            | 5.1      | 0.0157               | 12.5550 E+04       |
| 12  | -0.0624           | -0.0747            | 4.5      | 0.0123               | 8.7743 E+04        |
| 13  | -0.0517           | -0.0640            | 4.5      | 0.0123               | 8.7743 E+04        |
| 14  | -0.0402           | -0.0509            | 4.2      | 0.0107               | 6.9776 E+04        |
| 15  | -0.0329           | -0.0436            | 4.2      | 0.0107               | 6.9776 E+04        |
| 16  | -0.0194           | -0.0301            | 4.2      | 0.0107               | 6.9776 E+04        |
| 17  | -0.0153           | -0.0227            | 3.5      | 0.0074               | 4.4994 E+04        |
| 18  | -0.0153           | -0.0227            | 3.5      | 0.0074               | 4.4994 E+04        |
| 19  | -0.0145           | -0.0219            | 3.5      | 0.0074               | 4.4994 E+04        |
| 20  | -0.0229           | -0.0332            | 4.1      | 0.0102               | 7.6485 E+04        |
| 21  | -0.0158           | -0.0260            | 4.1      | 0.0102               | 7.6485 E+04        |
| 22  | -0.0249           | -0.0361            | 4.3      | 0.0111               | 11.0113 E+04       |
| 23  | -0.0153           | -0.0255            | 4.1      | 0.0102               | 7.6485 E+04        |
| 24  | -0.0159           | -0.0262            | 4.1      | 0.0102               | 7.6485 E+04        |
| 25  | -0.0133           | -0.0244            | 4.3      | 0.0111               | 11.0113 E+04       |
| 26  | -0.0153           | -0.0255            | 4.1      | 0.0102               | 7.6485 E+04        |
| 27  | -0.0153           | -0.0255            | 4.1      | 0.0102               | 7.6485 E+04        |

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## SIZE DATA

System name : 0205I

19-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 26.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 595.0           | 6.6      | 300.0               | 300.0  | 300.0                 | 300.0  |
| 2   | REC   | 595.0           | 6.6      | 300.0               | 300.0  | 300.0                 | 300.0  |
| 3   | REC   | 595.0           | 6.6      | 300.0               | 300.0  | 300.0                 | 300.0  |
| 4   | REC   | 595.0           | 6.6      | 300.0               | 300.0  | 300.0                 | 300.0  |
| 5   | REC   | 460.0           | 5.1      | 300.0               | 300.0  | 300.0                 | 300.0  |
| 6   | REC   | 460.0           | 5.1      | 300.0               | 300.0  | 300.0                 | 300.0  |
| 7   | REC   | 230.0           | 4.6      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 8   | REC   | 230.0           | 4.6      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 9   | REC   | 0.0             | 0.0      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 10  | RND   | 115.0           | 3.7      | -----               | 200.0  | -----                 | 200.0  |
| 11  | RND   | 115.0           | 3.7      | -----               | 200.0  | -----                 | 200.0  |
| 12  | REC   | 230.0           | 4.6      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 13  | REC   | 0.0             | 0.0      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 14  | RND   | 115.0           | 3.7      | -----               | 200.0  | -----                 | 200.0  |
| 15  | RND   | 115.0           | 3.7      | -----               | 200.0  | -----                 | 200.0  |
| 16  | REC   | 135.0           | 4.5      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 17  | REC   | 105.0           | 4.7      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 18  | REC   | 55.0            | 2.4      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 19  | REC   | 55.0            | 2.4      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 20  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 21  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 22  | REC   | 30.0            | 1.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 23  | RND   | 30.0            | 2.4      | -----               | 125.0  | -----                 | 125.0  |
| 24  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 25  | RND   | 50.0            | 2.5      | -----               | 160.0  | -----                 | 160.0  |
| 26  | RND   | 30.0            | 2.4      | -----               | 125.0  | -----                 | 125.0  |

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## PRESSURE LOSS DATA

System name : 0205I

19-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 26.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0045       | 0.0000        | 0.0000          | 0.0045        |
| 2   | 0.0065      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0095        |
| 3   | 0.0065      | 0.0000                    | 0.0000                | 0.0149       | 0.0000        | 0.0000          | 0.0214        |
| 4   | 0.0065      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0086        |
| 5   | 0.0067      | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0000          | 0.0101        |
| 6   | 0.0042      | 0.0000                    | 0.0000                | 0.0041       | 0.0000        | 0.0000          | 0.0083        |
| 7   | 0.0008      | 0.0000                    | 0.0000                | 0.0071       | 0.0000        | 0.0000          | 0.0080        |
| 8   | 0.0041      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0060        |
| 9   | 0.0052      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0311          | 0.0363        |
| 10  | 0.0139      | 0.0200                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0363        |
| 11  | 0.0139      | 0.0200                    | 0.0000                | 0.0015       | 0.0000        | 0.0009          | 0.0363        |
| 12  | 0.0080      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0041          | 0.0140        |
| 13  | 0.0052      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0311          | 0.0363        |
| 14  | 0.0139      | 0.0200                    | 0.0000                | 0.0015       | 0.0000        | 0.0009          | 0.0363        |
| 15  | 0.0139      | 0.0200                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0363        |
| 16  | 0.0081      | 0.0000                    | 0.0000                | 0.0092       | 0.0000        | 0.0138          | 0.0310        |
| 17  | 0.0000      | 0.0000                    | 0.0000                | 0.0099       | 0.0000        | 0.0000          | 0.0099        |
| 18  | 0.0006      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0037        |
| 19  | 0.0013      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0017        |
| 20  | 0.0003      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0015          | 0.0019        |
| 21  | 0.0000      | 0.0200                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0205        |
| 22  | 0.0011      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0014        |
| 23  | 0.0000      | 0.0200                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0211        |
| 24  | 0.0044      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0020          | 0.0070        |
| 25  | 0.0000      | 0.0200                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0207        |
| 26  | 0.0105      | 0.0200                    | 0.0000                | 0.0005       | 0.0000        | 0.0067          | 0.0376        |

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## C-VALUE DATA

System name : 0205I

19-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 26.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.1668 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2415 | 0.0000            | 0.0000        | 0.1112 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2415 | 0.0000            | 0.0000        | 0.5560 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2415 | 0.0000            | 0.0000        | 0.0779 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2500 | 0.0000            | 0.0000        | 0.2101 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2613 | 0.0000            | 0.0000        | 0.2578 | 0.0000 | 0.0000  |
| 7   | 6   | 0.0511 | 0.0000            | 0.0000        | 0.5487 | 0.0000 | 0.0000  |
| 8   | 7   | 0.3147 | 0.0000            | 0.0000        | 0.1474 | 0.0000 | 0.0000  |
| 9   | 8   | 0.0000 | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 10  | 8   | 1.0717 | 2.4297            | 0.0000        | 0.2913 | 0.0000 | 0.0000  |
| 11  | 8   | 1.0717 | 2.4297            | 0.0000        | 0.1813 | 0.0000 | 0.1099  |
| 12  | 6   | 0.4978 | 0.0000            | 0.0000        | 0.1474 | 0.0000 | 0.3119  |
| 13  | 12  | 0.0000 | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 14  | 12  | 1.0717 | 2.4297            | 0.0000        | 0.1813 | 0.0000 | 0.1101  |
| 15  | 12  | 1.0717 | 2.4297            | 0.0000        | 0.2914 | 0.0000 | 0.0000  |
| 16  | 4   | 0.3000 | 0.0000            | 0.0000        | 0.7357 | 0.0000 | 1.1129  |
| 17  | 16  | 0.0000 | 0.0000            | 0.0000        | 0.7396 | 0.0000 | 0.0000  |
| 18  | 17  | 0.0433 | 0.0000            | 0.0000        | 0.8393 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3513 | 0.0000            | 0.0000        | 0.1013 | 0.0000 | 0.0000  |
| 20  | 19  | 0.0918 | 0.0000            | 0.0000        | 0.1584 | 0.0000 | 1.9503  |
| 21  | 20  | 0.0000 | 7.8449            | 0.0000        | 0.1949 | 0.0000 | 0.0000  |
| 22  | 19  | 0.3064 | 0.0000            | 0.0000        | 0.2326 | 0.0000 | 0.0000  |
| 23  | 22  | 0.0000 | 5.4479            | 0.0000        | 0.2872 | 0.0000 | 0.0000  |
| 24  | 17  | 0.3319 | 0.0000            | 0.0000        | 0.1880 | 0.0000 | 0.6674  |
| 25  | 24  | 0.0000 | 5.2646            | 0.0000        | 0.1895 | 0.0000 | 0.0000  |
| 26  | 16  | 0.8421 | 5.4479            | 0.0000        | 0.1409 | 0.0000 | 1.8134  |

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## FAN DATA PRINTOUT

System name : 0205I

19-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 595.0 L/s  |
| Fan Static Pressure .....                     | :           | 0.0512 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.1126 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.1126 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.1126 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.0512 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.1126 kPa |
| Total Downstream Losses ..... | : | 0.1126 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0205I

19-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 26.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.1126            | 0.0858             | 6.6      | 0.0268               | 14.8576 E+04       |
| 2   | 0.1082            | 0.0813             | 6.6      | 0.0268               | 14.8576 E+04       |
| 3   | 0.0987            | 0.0718             | 6.6      | 0.0268               | 14.8576 E+04       |
| 4   | 0.0773            | 0.0504             | 6.6      | 0.0268               | 14.8576 E+04       |
| 5   | 0.0687            | 0.0527             | 5.1      | 0.0160               | 11.4865 E+04       |
| 6   | 0.0586            | 0.0426             | 5.1      | 0.0160               | 11.4865 E+04       |
| 7   | 0.0503            | 0.0373             | 4.6      | 0.0130               | 7.6934 E+04        |
| 8   | 0.0423            | 0.0293             | 4.6      | 0.0130               | 7.6934 E+04        |
| 9   | 0.0052            | 0.0052             | 0.0      | 0.0000               | 0.0000 E+04        |
| 10  | 0.0363            | 0.0281             | 3.7      | 0.0082               | 5.0170 E+04        |
| 11  | 0.0354            | 0.0272             | 3.7      | 0.0082               | 5.0170 E+04        |
| 12  | 0.0462            | 0.0332             | 4.6      | 0.0130               | 7.6934 E+04        |
| 13  | 0.0052            | 0.0052             | 0.0      | 0.0000               | 0.0000 E+04        |
| 14  | 0.0354            | 0.0272             | 3.7      | 0.0082               | 5.0170 E+04        |
| 15  | 0.0363            | 0.0281             | 3.7      | 0.0082               | 5.0170 E+04        |
| 16  | 0.0549            | 0.0424             | 4.5      | 0.0124               | 5.8238 E+04        |
| 17  | 0.0376            | 0.0243             | 4.7      | 0.0134               | 5.2439 E+04        |
| 18  | 0.0278            | 0.0241             | 2.4      | 0.0037               | 2.7468 E+04        |
| 19  | 0.0241            | 0.0204             | 2.4      | 0.0037               | 2.7468 E+04        |
| 20  | 0.0210            | 0.0202             | 1.1      | 0.0008               | 1.2485 E+04        |
| 21  | 0.0205            | 0.0179             | 2.0      | 0.0025               | 1.7450 E+04        |
| 22  | 0.0224            | 0.0213             | 1.3      | 0.0011               | 1.4982 E+04        |
| 23  | 0.0211            | 0.0174             | 2.4      | 0.0037               | 2.0941 E+04        |
| 24  | 0.0257            | 0.0227             | 2.2      | 0.0030               | 2.4971 E+04        |
| 25  | 0.0207            | 0.0169             | 2.5      | 0.0038               | 2.7266 E+04        |
| 26  | 0.0310            | 0.0273             | 2.4      | 0.0037               | 2.0941 E+04        |

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## SIZE DATA

System name : 0205R

19-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 56.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 526.5           | 6.6      | 400.0               | 200.0  | 400.0                 | 200.0  |
| 2   | REC   | 526.5           | 6.6      | 400.0               | 200.0  | 400.0                 | 200.0  |
| 3   | REC   | 526.5           | 6.6      | 400.0               | 200.0  | 400.0                 | 200.0  |
| 4   | REC   | 526.5           | 6.6      | 400.0               | 200.0  | 400.0                 | 200.0  |
| 5   | REC   | 265.7           | 5.3      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 6   | REC   | 115.7           | 3.1      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 7   | REC   | 100.6           | 4.5      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 8   | REC   | 82.5            | 3.7      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 9   | REC   | 82.5            | 3.7      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 10  | REC   | 7.5             | 0.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 11  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 12  | RND   | 7.5             | 1.0      | -----               | 100.0  | -----                 | 100.0  |
| 13  | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 14  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 15  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 16  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 17  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 18  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 19  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 20  | RND   | 18.1            | 2.3      | -----               | 100.0  | -----                 | 100.0  |
| 21  | RND   | 15.1            | 1.9      | -----               | 100.0  | -----                 | 100.0  |
| 22  | REC   | 150.0           | 3.8      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 23  | REC   | 0.0             | 0.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 24  | RND   | 50.0            | 2.5      | -----               | 160.0  | -----                 | 160.0  |
| 25  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 26  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 27  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 28  | RND   | 100.0           | 3.2      | -----               | 200.0  | -----                 | 200.0  |
| 29  | RND   | 75.0            | 2.4      | -----               | 200.0  | -----                 | 200.0  |
| 30  | RND   | 50.0            | 2.5      | -----               | 160.0  | -----                 | 160.0  |
| 31  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 32  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 33  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 34  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 35  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 36  | REC   | 260.8           | 5.2      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 37  | REC   | 260.8           | 5.2      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 38  | REC   | 260.8           | 5.2      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 39  | REC   | 192.9           | 4.8      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 40  | REC   | 192.9           | 4.8      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 41  | REC   | 192.9           | 4.8      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 42  | REC   | 125.0           | 4.2      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 43  | REC   | 125.0           | 4.2      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 44  | REC   | 100.0           | 3.3      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 45  | REC   | 0.0             | 0.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 46  | RND   | 50.0            | 2.5      | -----               | 160.0  | -----                 | 160.0  |
| 47  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 48  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 49  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |

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SIZE DATA

System name : 0205R 19-06-24  
 Prepared by : G.O.C. 61017002.16  
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1. SIZE DATA FOR SECTIONS 1 THROUGH 56. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 50  | RND   | 50.0            | 2.5      | -----               | 160.0  | -----                 | 160.0  |
| 51  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 52  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 53  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 54  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 55  | RND   | 67.9            | 3.4      | -----               | 160.0  | -----                 | 160.0  |
| 56  | RND   | 67.9            | 3.4      | -----               | 160.0  | -----                 | 160.0  |

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## PRESSURE LOSS DATA

System name : 0205R

19-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 56.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0049       | 0.0000        | 0.0000          | 0.0049        |
| 2   | 0.0077      | 0.0000                    | 0.0000                | 0.0032       | 0.0000        | 0.0000          | 0.0110        |
| 3   | 0.0077      | 0.0000                    | 0.0000                | 0.0162       | 0.0000        | 0.0000          | 0.0239        |
| 4   | 0.0077      | 0.0000                    | 0.0000                | 0.0035       | 0.0400        | 0.0000          | 0.0512        |
| 5   | 0.0051      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0497          | 0.0578        |
| 6   | 0.0096      | 0.0000                    | 0.0000                | 0.0038       | 0.0000        | 0.0000          | 0.0135        |
| 7   | 0.0011      | 0.0000                    | 0.0000                | 0.0063       | 0.0000        | 0.0000          | 0.0074        |
| 8   | 0.0030      | 0.0000                    | 0.0000                | 0.0088       | 0.0000        | 0.0000          | 0.0118        |
| 9   | 0.0027      | 0.0000                    | 0.0000                | 0.0039       | 0.0000        | 0.0000          | 0.0066        |
| 10  | 0.0006      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0116          | 0.0122        |
| 11  | 0.0000      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0104          | 0.0105        |
| 12  | 0.0004      | 0.0100                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0105        |
| 13  | 0.0006      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0020        |
| 14  | 0.0028      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0044        |
| 15  | 0.0016      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0018        |
| 16  | 0.0004      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0141          | 0.0145        |
| 17  | 0.0042      | 0.0100                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0145        |
| 18  | 0.0024      | 0.0100                    | 0.0000                | 0.0001       | 0.0000        | 0.0038          | 0.0163        |
| 19  | 0.0011      | 0.0100                    | 0.0000                | 0.0003       | 0.0000        | 0.0093          | 0.0207        |
| 20  | -0.0070     | 0.0100                    | 0.0000                | 0.0005       | 0.0000        | 0.0375          | 0.0411        |
| 21  | -0.0035     | 0.0100                    | 0.0000                | 0.0008       | 0.0000        | 0.0413          | 0.0485        |
| 22  | 0.0149      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0119          | 0.0281        |
| 23  | 0.0104      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0236          | 0.0339        |
| 24  | 0.0134      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0058          | 0.0203        |
| 25  | 0.0020      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0028        |
| 26  | 0.0006      | 0.0100                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0108        |
| 27  | 0.0025      | 0.0100                    | 0.0000                | 0.0002       | 0.0000        | 0.0009          | 0.0136        |
| 28  | 0.0149      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0157        |
| 29  | 0.0020      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0026        |
| 30  | 0.0014      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0022        |
| 31  | 0.0020      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0027        |
| 32  | 0.0006      | 0.0100                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0108        |
| 33  | 0.0025      | 0.0100                    | 0.0000                | 0.0002       | 0.0000        | 0.0008          | 0.0135        |
| 34  | 0.0024      | 0.0100                    | 0.0000                | 0.0002       | 0.0000        | 0.0031          | 0.0157        |
| 35  | 0.0015      | 0.0100                    | 0.0000                | 0.0002       | 0.0000        | 0.0065          | 0.0183        |
| 36  | 0.0051      | 0.0000                    | 0.0000                | 0.0041       | 0.0000        | 0.0000          | 0.0091        |
| 37  | 0.0023      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.0045        |
| 38  | 0.0023      | 0.0000                    | 0.0000                | 0.0065       | 0.0000        | 0.0000          | 0.0088        |
| 39  | 0.0056      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0087        |
| 40  | 0.0042      | 0.0000                    | 0.0000                | 0.0204       | 0.0000        | 0.0000          | 0.0246        |
| 41  | 0.0042      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0073        |
| 42  | 0.0060      | 0.0000                    | 0.0000                | 0.0085       | 0.0000        | 0.0000          | 0.0145        |
| 43  | 0.0037      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0116        |
| 44  | 0.0029      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0046        |
| 45  | 0.0082      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0179          | 0.0261        |
| 46  | 0.0120      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0125        |
| 47  | 0.0020      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0026        |
| 48  | 0.0006      | 0.0100                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0110        |
| 49  | 0.0025      | 0.0100                    | 0.0000                | 0.0004       | 0.0000        | 0.0007          | 0.0136        |
| 50  | 0.0120      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0123        |



## PRESSURE LOSS DATA

System name : 0205R

19-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 56. (Continued)

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 51  | 0.0020      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0028        |
| 52  | 0.0006      | 0.0100                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0110        |
| 53  | 0.0025      | 0.0100                    | 0.0000                | 0.0004       | 0.0000        | 0.0009          | 0.0138        |
| 54  | -0.0059     | 0.0100                    | 0.0000                | 0.0006       | 0.0000        | 0.0260          | 0.0307        |
| 55  | 0.0026      | 0.0100                    | 0.0000                | 0.0019       | 0.0000        | 0.0423          | 0.0568        |
| 56  | -0.0023     | 0.0100                    | 0.0000                | 0.0020       | 0.0000        | 0.0877          | 0.0974        |

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## C-VALUE DATA

System name : 0205R

19-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 56.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance  |
|-----|-----|---------|-------------------|---------------|--------|--------|----------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.1830 | 0.0000 | 0.0000   |
| 2   | 1   | 0.2899  | 0.0000            | 0.0000        | 0.1220 | 0.0000 | 0.0000   |
| 3   | 2   | 0.2899  | 0.0000            | 0.0000        | 0.6100 | 0.0000 | 0.0000   |
| 4   | 3   | 0.2899  | 0.0000            | 0.0000        | 0.1309 | 1.5036 | 0.0000   |
| 5   | 4   | 0.1900  | 0.0000            | 0.0000        | 0.1776 | 0.0000 | 2.8631   |
| 6   | 5   | 0.5558  | 0.0000            | 0.0000        | 0.6532 | 0.0000 | 0.0000   |
| 7   | 6   | 0.1936  | 0.0000            | 0.0000        | 0.5119 | 0.0000 | 0.0000   |
| 8   | 7   | 0.2479  | 0.0000            | 0.0000        | 1.0638 | 0.0000 | 0.0000   |
| 9   | 8   | 0.3263  | 0.0000            | 0.0000        | 0.4759 | 0.0000 | 0.0000   |
| 10  | 9   | 0.0700  | 0.0000            | 0.0000        | 0.3328 | 0.0000 | 169.7861 |
| 11  | 10  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000   |
| 12  | 10  | 5.6000  | 17.8516           | 0.0000        | 0.1660 | 0.0000 | 0.0000   |
| 13  | 9   | 0.0700  | 0.0000            | 0.0000        | 0.2038 | 0.0000 | 0.0000   |
| 14  | 13  | 0.4067  | 0.0000            | 0.0000        | 0.5249 | 0.0000 | 0.0000   |
| 15  | 14  | 0.5300  | 0.0000            | 0.0000        | 0.2660 | 0.0000 | 0.0000   |
| 16  | 15  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000   |
| 17  | 15  | 5.6000  | 3.9225            | 0.0000        | 0.1064 | 0.0000 | 0.0000   |
| 18  | 14  | 0.7800  | 3.9225            | 0.0000        | 0.0554 | 0.0000 | 1.4985   |
| 19  | 13  | 0.1633  | 3.9225            | 0.0000        | 0.1064 | 0.0000 | 3.6517   |
| 20  | 7   | -0.5661 | 3.0651            | 0.0000        | 0.1618 | 0.0000 | 11.5077  |
| 21  | 6   | -0.6056 | 4.4040            | 0.0000        | 0.3464 | 0.0000 | 18.1857  |
| 22  | 5   | 0.8598  | 0.0000            | 0.0000        | 0.1495 | 0.0000 | 1.3721   |
| 23  | 22  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000   |
| 24  | 22  | 1.5460  | 0.0000            | 0.0000        | 0.3205 | 0.0000 | 1.5199   |
| 25  | 24  | 0.5300  | 0.0000            | 0.0000        | 0.3182 | 0.0000 | 0.0000   |
| 26  | 25  | 0.2200  | 3.9225            | 0.0000        | 0.0817 | 0.0000 | 0.0000   |
| 27  | 24  | 0.6512  | 3.9225            | 0.0000        | 0.0817 | 0.0000 | 0.3576   |
| 28  | 22  | 1.7292  | 0.0000            | 0.0000        | 0.1161 | 0.0000 | 0.0000   |
| 29  | 28  | 0.3250  | 0.0000            | 0.0000        | 0.1676 | 0.0000 | 0.0000   |
| 30  | 29  | 0.4067  | 0.0000            | 0.0000        | 0.1974 | 0.0000 | 0.0000   |
| 31  | 30  | 0.5300  | 0.0000            | 0.0000        | 0.2800 | 0.0000 | 0.0000   |
| 32  | 31  | 0.2200  | 3.9225            | 0.0000        | 0.0817 | 0.0000 | 0.0000   |
| 33  | 30  | 0.6512  | 3.9225            | 0.0000        | 0.0817 | 0.0000 | 0.3194   |
| 34  | 29  | 0.6779  | 3.9225            | 0.0000        | 0.0817 | 0.0000 | 1.2115   |
| 35  | 28  | 0.2452  | 3.9225            | 0.0000        | 0.0817 | 0.0000 | 2.5676   |
| 36  | 4   | 0.1900  | 0.0000            | 0.0000        | 0.2430 | 0.0000 | 0.0000   |
| 37  | 36  | 0.1374  | 0.0000            | 0.0000        | 0.1319 | 0.0000 | 0.0000   |
| 38  | 37  | 0.1374  | 0.0000            | 0.0000        | 0.3893 | 0.0000 | 0.0000   |
| 39  | 38  | 0.3363  | 0.0000            | 0.0000        | 0.2148 | 0.0000 | 0.0000   |
| 40  | 39  | 0.2963  | 0.0000            | 0.0000        | 1.4252 | 0.0000 | 0.0000   |
| 41  | 40  | 0.2963  | 0.0000            | 0.0000        | 0.2148 | 0.0000 | 0.0000   |
| 42  | 41  | 0.4215  | 0.0000            | 0.0000        | 0.7940 | 0.0000 | 0.0000   |
| 43  | 42  | 0.3428  | 0.0000            | 0.0000        | 0.7444 | 0.0000 | 0.0000   |
| 44  | 43  | 0.2700  | 0.0000            | 0.0000        | 0.2591 | 0.0000 | 0.0000   |
| 45  | 44  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000   |
| 46  | 44  | 1.7596  | 0.0000            | 0.0000        | 0.1363 | 0.0000 | 0.0000   |
| 47  | 46  | 0.5300  | 0.0000            | 0.0000        | 0.2209 | 0.0000 | 0.0000   |
| 48  | 47  | 0.2200  | 3.9225            | 0.0000        | 0.1625 | 0.0000 | 0.0000   |
| 49  | 46  | 0.6512  | 3.9225            | 0.0000        | 0.1625 | 0.0000 | 0.2603   |
| 50  | 44  | 1.7596  | 0.0000            | 0.0000        | 0.0714 | 0.0000 | 0.0031   |
| 51  | 50  | 0.5300  | 0.0000            | 0.0000        | 0.3130 | 0.0000 | 0.0000   |
| 52  | 51  | 0.2200  | 3.9225            | 0.0000        | 0.1625 | 0.0000 | 0.0000   |
| 53  | 50  | 0.6512  | 3.9225            | 0.0000        | 0.1625 | 0.0000 | 0.3524   |



## C-VALUE DATA

System name : 0205R 19-06-24  
Prepared by : G.O.C. 61017002.16  
E20-II DuctLINK Program Page 2 Of 2

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1. C-VALUE DATA FOR SECTIONS 1 THROUGH 56. (Continued)

-----

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 54  | 43  | -0.5500 | 3.9225            | 0.0000        | 0.2508 | 0.0000 | 10.1804 |
| 55  | 41  | 0.1819  | 1.4282            | 0.0000        | 0.2768 | 0.0000 | 6.0378  |
| 56  | 38  | -0.1399 | 1.4282            | 0.0000        | 0.2890 | 0.0000 | 12.5257 |

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## FAN DATA PRINTOUT

System name : 0205R 19-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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## Fan Selection Parameters (Return System)

```

-----
Fan Airflow Rate ..... :      526.5 L/s
Fan Static Pressure ..... :      0.1493 kPa
-----
Total Pressure Difference Across Fan ..... :      0.2108 kPa
Static Pressure Difference Across Fan ..... :      0.2108 kPa
Velocity Pressure Difference Across Fan ..... :      0.0000 kPa
-----
Fan Inlet / Outlet Data                At Inlet                At Outlet
-----
Total Pressure ..... :      -0.2108 kPa      0.0000 kPa
Static Pressure ..... :      -0.2722 kPa     -0.0614 kPa
Velocity Pressure ..... :      0.0614 kPa      0.0614 kPa
Velocity ..... :      10.0 m/s      10.0 m/s
-----

```

## Losses Upstream of Fan

```

-----
Return System Loss ..... :      -0.2108 kPa
Filter Loss ..... :      0.0000 kPa
Other Upstream Losses ..... :      0.0000 kPa
Total Upstream Losses ..... :      -0.2108 kPa
-----

```

## Losses Downstream of Fan

```

-----
Filter Loss ..... :      0.0000 kPa
Other Downstream Losses ..... :      0.0000 kPa
Total Downstream Losses ..... :      0.0000 kPa
-----

```

## Psychrometric Properties

```

-----
Altitude ..... :      0.0 m
Temperature ..... :      12.8 C
Relative Humidity ..... :      100.0 %
Density ..... :      1.2296 kg/cu m
Viscosity ..... :      0.0040 sqm/s
Barometric Pressure ..... :      101.3260 kPa
Vapor Pressure ..... :      1.4734 kPa
-----

```

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## PRESSURE LOSS DATA II

System name : 0205R

19-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 56.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.2108           | -0.2374            | 6.6      | 0.0266               | 13.7397 E+04       |
| 2   | -0.2059           | -0.2325            | 6.6      | 0.0266               | 13.7397 E+04       |
| 3   | -0.1949           | -0.2215            | 6.6      | 0.0266               | 13.7397 E+04       |
| 4   | -0.1710           | -0.1976            | 6.6      | 0.0266               | 13.7397 E+04       |
| 5   | -0.0701           | -0.0875            | 5.3      | 0.0173               | 8.8876 E+04        |
| 6   | -0.0620           | -0.0678            | 3.1      | 0.0058               | 4.4398 E+04        |
| 7   | -0.0485           | -0.0608            | 4.5      | 0.0123               | 5.0241 E+04        |
| 8   | -0.0411           | -0.0494            | 3.7      | 0.0083               | 4.1202 E+04        |
| 9   | -0.0293           | -0.0375            | 3.7      | 0.0083               | 4.1202 E+04        |
| 10  | -0.0111           | -0.0111            | 0.3      | 0.0001               | 0.3746 E+04        |
| 11  | -0.0000           | -0.0000            | 0.0      | 0.0000               | 0.0000 E+04        |
| 12  | -0.0105           | -0.0110            | 1.0      | 0.0006               | 0.6544 E+04        |
| 13  | -0.0227           | -0.0295            | 3.3      | 0.0068               | 3.7456 E+04        |
| 14  | -0.0207           | -0.0237            | 2.2      | 0.0030               | 2.4971 E+04        |
| 15  | -0.0163           | -0.0171            | 1.1      | 0.0008               | 1.2485 E+04        |
| 16  | -0.0004           | -0.0004            | 0.0      | 0.0000               | 0.0000 E+04        |
| 17  | -0.0145           | -0.0171            | 2.0      | 0.0025               | 1.7450 E+04        |
| 18  | -0.0125           | -0.0151            | 2.0      | 0.0025               | 1.7450 E+04        |
| 19  | -0.0114           | -0.0139            | 2.0      | 0.0025               | 1.7450 E+04        |
| 20  | -0.0036           | -0.0068            | 2.3      | 0.0033               | 1.5793 E+04        |
| 21  | -0.0072           | -0.0095            | 1.9      | 0.0023               | 1.3175 E+04        |
| 22  | -0.0501           | -0.0588            | 3.8      | 0.0086               | 5.6184 E+04        |
| 23  | -0.0104           | -0.0104            | 0.0      | 0.0000               | 0.0000 E+04        |
| 24  | -0.0282           | -0.0320            | 2.5      | 0.0038               | 2.7266 E+04        |
| 25  | -0.0136           | -0.0161            | 2.0      | 0.0025               | 1.7450 E+04        |
| 26  | -0.0108           | -0.0133            | 2.0      | 0.0025               | 1.7450 E+04        |
| 27  | -0.0127           | -0.0152            | 2.0      | 0.0025               | 1.7450 E+04        |
| 28  | -0.0339           | -0.0402            | 3.2      | 0.0062               | 4.3626 E+04        |
| 29  | -0.0183           | -0.0218            | 2.4      | 0.0035               | 3.2720 E+04        |
| 30  | -0.0157           | -0.0195            | 2.5      | 0.0038               | 2.7266 E+04        |
| 31  | -0.0135           | -0.0160            | 2.0      | 0.0025               | 1.7450 E+04        |
| 32  | -0.0108           | -0.0133            | 2.0      | 0.0025               | 1.7450 E+04        |
| 33  | -0.0127           | -0.0152            | 2.0      | 0.0025               | 1.7450 E+04        |
| 34  | -0.0126           | -0.0151            | 2.0      | 0.0025               | 1.7450 E+04        |
| 35  | -0.0117           | -0.0143            | 2.0      | 0.0025               | 1.7450 E+04        |
| 36  | -0.1198           | -0.1365            | 5.2      | 0.0167               | 8.7224 E+04        |
| 37  | -0.1107           | -0.1274            | 5.2      | 0.0167               | 8.7224 E+04        |
| 38  | -0.1062           | -0.1229            | 5.2      | 0.0167               | 8.7224 E+04        |
| 39  | -0.0974           | -0.1117            | 4.8      | 0.0143               | 7.2245 E+04        |
| 40  | -0.0887           | -0.1030            | 4.8      | 0.0143               | 7.2245 E+04        |
| 41  | -0.0641           | -0.0784            | 4.8      | 0.0143               | 7.2245 E+04        |
| 42  | -0.0568           | -0.0675            | 4.2      | 0.0107               | 5.3924 E+04        |
| 43  | -0.0423           | -0.0530            | 4.2      | 0.0107               | 5.3924 E+04        |
| 44  | -0.0307           | -0.0376            | 3.3      | 0.0068               | 4.3139 E+04        |
| 45  | -0.0082           | -0.0082            | 0.0      | 0.0000               | 0.0000 E+04        |
| 46  | -0.0261           | -0.0299            | 2.5      | 0.0038               | 2.7266 E+04        |
| 47  | -0.0136           | -0.0161            | 2.0      | 0.0025               | 1.7450 E+04        |
| 48  | -0.0110           | -0.0135            | 2.0      | 0.0025               | 1.7450 E+04        |
| 49  | -0.0129           | -0.0154            | 2.0      | 0.0025               | 1.7450 E+04        |
| 50  | -0.0261           | -0.0299            | 2.5      | 0.0038               | 2.7266 E+04        |
| 51  | -0.0138           | -0.0163            | 2.0      | 0.0025               | 1.7450 E+04        |



PRESSURE LOSS DATA II

System name : 0205R 19-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 2 Of 2  
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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 56. (Continued)

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 52  | -0.0110           | -0.0135            | 2.0      | 0.0025               | 1.7450 E+04        |
| 53  | -0.0129           | -0.0154            | 2.0      | 0.0025               | 1.7450 E+04        |
| 54  | -0.0048           | -0.0073            | 2.0      | 0.0025               | 1.7450 E+04        |
| 55  | -0.0145           | -0.0215            | 3.4      | 0.0070               | 3.7017 E+04        |
| 56  | -0.0097           | -0.0167            | 3.4      | 0.0070               | 3.7017 E+04        |

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## SIZE DATA

System name : 0206I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Shape | Airflow<br>Rate | Velocity <-----<br>m/s | Metal <-----><br>Width Height | <-----><br>Width Height | Airflow <-----><br>Rate | <-----><br>Width Height |
|-----|-------|-----------------|------------------------|-------------------------------|-------------------------|-------------------------|-------------------------|
|     |       | L/s             | m/s                    | mm                            | mm                      | mm                      | mm                      |
| 1   | REC   | 1395.6          | 6.2                    | 500.0                         | 450.0                   | 500.0                   | 450.0                   |
| 2   | REC   | 1395.6          | 6.2                    | 500.0                         | 450.0                   | 500.0                   | 450.0                   |
| 3   | REC   | 1395.6          | 6.2                    | 500.0                         | 450.0                   | 500.0                   | 450.0                   |
| 4   | REC   | 1395.6          | 6.2                    | 500.0                         | 450.0                   | 500.0                   | 450.0                   |
| 5   | REC   | 1395.6          | 6.2                    | 500.0                         | 450.0                   | 500.0                   | 450.0                   |
| 6   | REC   | 1395.6          | 6.2                    | 500.0                         | 450.0                   | 500.0                   | 450.0                   |
| 7   | REC   | 1395.6          | 6.2                    | 500.0                         | 450.0                   | 500.0                   | 450.0                   |
| 8   | REC   | 1395.6          | 6.1                    | 650.0                         | 350.0                   | 650.0                   | 350.0                   |
| 9   | REC   | 382.2           | 5.1                    | 300.0                         | 250.0                   | 300.0                   | 250.0                   |
| 10  | REC   | 176.6           | 4.4                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 11  | REC   | 176.6           | 4.4                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 12  | REC   | 102.8           | 2.6                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 13  | REC   | 102.8           | 2.6                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 14  | REC   | 1013.4          | 4.8                    | 600.0                         | 350.0                   | 600.0                   | 350.0                   |
| 15  | REC   | 807.8           | 4.6                    | 500.0                         | 350.0                   | 500.0                   | 350.0                   |
| 16  | REC   | 602.2           | 4.5                    | 450.0                         | 300.0                   | 450.0                   | 300.0                   |
| 17  | REC   | 396.6           | 4.4                    | 300.0                         | 300.0                   | 300.0                   | 300.0                   |
| 18  | REC   | 191.0           | 3.8                    | 250.0                         | 200.0                   | 250.0                   | 200.0                   |
| 19  | REC   | 191.0           | 3.8                    | 250.0                         | 200.0                   | 250.0                   | 200.0                   |
| 20  | REC   | 95.5            | 4.2                    | 150.0                         | 150.0                   | 150.0                   | 150.0                   |
| 21  | REC   | 95.5            | 4.2                    | 150.0                         | 150.0                   | 150.0                   | 150.0                   |
| 22  | REC   | 102.8           | 2.6                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 23  | REC   | 102.8           | 2.6                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 24  | REC   | 205.6           | 4.1                    | 250.0                         | 200.0                   | 250.0                   | 200.0                   |
| 25  | REC   | 205.6           | 4.1                    | 250.0                         | 200.0                   | 250.0                   | 200.0                   |
| 26  | REC   | 102.8           | 2.6                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 27  | REC   | 102.8           | 2.6                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 28  | REC   | 205.6           | 4.1                    | 250.0                         | 200.0                   | 250.0                   | 200.0                   |
| 29  | REC   | 102.8           | 2.6                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 30  | REC   | 102.8           | 2.6                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 31  | REC   | 205.6           | 4.1                    | 250.0                         | 200.0                   | 250.0                   | 200.0                   |
| 32  | REC   | 205.6           | 4.1                    | 250.0                         | 200.0                   | 250.0                   | 200.0                   |
| 33  | REC   | 102.8           | 2.6                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 34  | REC   | 102.8           | 2.6                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |

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## PRESSURE LOSS DATA

System name : 0206I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 2   | 0.0059      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0075        |
| 3   | 0.0059      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0092        |
| 4   | 0.0059      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0089        |
| 5   | 0.0059      | 0.0000                    | 0.0000                | 0.0064       | 0.0000        | 0.0000          | 0.0123        |
| 6   | 0.0059      | 0.0000                    | 0.0000                | 0.0054       | 0.0180        | 0.0000          | 0.0293        |
| 7   | 0.0059      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0071        |
| 8   | 0.0001      | 0.0000                    | 0.0000                | 0.0036       | 0.0000        | 0.0000          | 0.0037        |
| 9   | 0.0069      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0029          | 0.0111        |
| 10  | 0.0002      | 0.0000                    | 0.0000                | 0.0076       | 0.0000        | 0.0084          | 0.0163        |
| 11  | 0.0036      | 0.0220                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0270        |
| 12  | 0.0166      | 0.0250                    | 0.0000                | 0.0004       | 0.0000        | 0.0012          | 0.0433        |
| 13  | 0.0166      | 0.0250                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0433        |
| 14  | 0.0060      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0085        |
| 15  | -0.0002     | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0007        |
| 16  | -0.0002     | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0008        |
| 17  | -0.0003     | 0.0000                    | 0.0000                | 0.0044       | 0.0000        | 0.0000          | 0.0041        |
| 18  | 0.0002      | 0.0000                    | 0.0000                | 0.0047       | 0.0000        | 0.0010          | 0.0058        |
| 19  | 0.0029      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0039        |
| 20  | 0.0027      | 0.0250                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0307        |
| 21  | 0.0027      | 0.0250                    | 0.0000                | 0.0023       | 0.0000        | 0.0007          | 0.0307        |
| 22  | 0.0137      | 0.0250                    | 0.0000                | 0.0004       | 0.0000        | 0.0012          | 0.0403        |
| 23  | 0.0137      | 0.0250                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0403        |
| 24  | 0.0061      | 0.0000                    | 0.0000                | 0.0052       | 0.0000        | 0.0002          | 0.0115        |
| 25  | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0042        |
| 26  | 0.0028      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0287        |
| 27  | 0.0028      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0287        |
| 28  | 0.0057      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0098          | 0.0162        |
| 29  | 0.0028      | 0.0250                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0290        |
| 30  | 0.0028      | 0.0250                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0290        |
| 31  | 0.0062      | 0.0000                    | 0.0000                | 0.0052       | 0.0000        | 0.0015          | 0.0130        |
| 32  | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0042        |
| 33  | 0.0028      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0287        |
| 34  | 0.0028      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0287        |

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## C-VALUE DATA

System name : 0206I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0323 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2507  | 0.0000            | 0.0000        | 0.0647 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2507  | 0.0000            | 0.0000        | 0.1391 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2507  | 0.0000            | 0.0000        | 0.1275 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2507  | 0.0000            | 0.0000        | 0.2716 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2507  | 0.0000            | 0.0000        | 0.2274 | 0.7617 | 0.0000  |
| 7   | 6   | 0.2507  | 0.0000            | 0.0000        | 0.0516 | 0.0000 | 0.0000  |
| 8   | 7   | 0.0053  | 0.0000            | 0.0000        | 0.1551 | 0.0000 | 0.0000  |
| 9   | 8   | 0.3000  | 0.0000            | 0.0000        | 0.0789 | 0.0000 | 0.1800  |
| 10  | 9   | 0.0134  | 0.0000            | 0.0000        | 0.6367 | 0.0000 | 0.7040  |
| 11  | 10  | 0.3014  | 1.8381            | 0.0000        | 0.1162 | 0.0000 | 0.0000  |
| 12  | 9   | 1.0429  | 6.1616            | 0.0000        | 0.0948 | 0.0000 | 0.3059  |
| 13  | 9   | 1.0429  | 6.1616            | 0.0000        | 0.4006 | 0.0000 | 0.0000  |
| 14  | 8   | 0.2577  | 0.0000            | 0.0000        | 0.1758 | 0.0000 | 0.0000  |
| 15  | 14  | -0.0165 | 0.0000            | 0.0000        | 0.0687 | 0.0000 | 0.0000  |
| 16  | 15  | -0.0171 | 0.0000            | 0.0000        | 0.0807 | 0.0000 | 0.0000  |
| 17  | 16  | -0.0234 | 0.0000            | 0.0000        | 0.3686 | 0.0000 | 0.0000  |
| 18  | 17  | 0.0133  | 0.0000            | 0.0000        | 0.5195 | 0.0000 | 0.1099  |
| 19  | 18  | 0.3264  | 0.0000            | 0.0000        | 0.1039 | 0.0000 | 0.0000  |
| 20  | 19  | 0.3000  | 2.2590            | 0.0000        | 0.2682 | 0.0000 | 0.0000  |
| 21  | 19  | 0.3000  | 2.2590            | 0.0000        | 0.2040 | 0.0000 | 0.0642  |
| 22  | 17  | 1.1476  | 6.1616            | 0.0000        | 0.0948 | 0.0000 | 0.3059  |
| 23  | 17  | 1.1476  | 6.1616            | 0.0000        | 0.4006 | 0.0000 | 0.0000  |
| 24  | 16  | 0.5024  | 0.0000            | 0.0000        | 0.5009 | 0.0000 | 0.0184  |
| 25  | 24  | 0.3220  | 0.0000            | 0.0000        | 0.0789 | 0.0000 | 0.0000  |
| 26  | 25  | 0.2700  | 6.1616            | 0.0000        | 0.2276 | 0.0000 | 0.0000  |
| 27  | 25  | 0.2700  | 6.1616            | 0.0000        | 0.2276 | 0.0000 | 0.0000  |
| 28  | 15  | 0.4324  | 0.0000            | 0.0000        | 0.0756 | 0.0000 | 0.9403  |
| 29  | 28  | 0.2700  | 6.1616            | 0.0000        | 0.2890 | 0.0000 | 0.0000  |
| 30  | 28  | 0.2700  | 6.1616            | 0.0000        | 0.2890 | 0.0000 | 0.0000  |
| 31  | 14  | 0.4366  | 0.0000            | 0.0000        | 0.5009 | 0.0000 | 0.1457  |
| 32  | 31  | 0.3220  | 0.0000            | 0.0000        | 0.0786 | 0.0000 | 0.0000  |
| 33  | 32  | 0.2700  | 6.1616            | 0.0000        | 0.2276 | 0.0000 | 0.0000  |
| 34  | 32  | 0.2700  | 6.1616            | 0.0000        | 0.2276 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0206I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 1395.6 L/s |
| Fan Static Pressure .....                     | :           | 0.0718 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.1332 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.1332 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.1332 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.0718 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.1332 kPa |
| Total Downstream Losses ..... | : | 0.1332 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0206I

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.1332            | 0.1096             | 6.2      | 0.0236               | 22.0323 E+04       |
| 2   | 0.1324            | 0.1088             | 6.2      | 0.0236               | 22.0323 E+04       |
| 3   | 0.1250            | 0.1013             | 6.2      | 0.0236               | 22.0323 E+04       |
| 4   | 0.1158            | 0.0921             | 6.2      | 0.0236               | 22.0323 E+04       |
| 5   | 0.1068            | 0.0832             | 6.2      | 0.0236               | 22.0323 E+04       |
| 6   | 0.0945            | 0.0708             | 6.2      | 0.0236               | 22.0323 E+04       |
| 7   | 0.0652            | 0.0415             | 6.2      | 0.0236               | 22.0323 E+04       |
| 8   | 0.0580            | 0.0349             | 6.1      | 0.0231               | 21.6616 E+04       |
| 9   | 0.0515            | 0.0355             | 5.1      | 0.0159               | 10.4428 E+04       |
| 10  | 0.0348            | 0.0229             | 4.4      | 0.0120               | 6.6132 E+04        |
| 11  | 0.0270            | 0.0150             | 4.4      | 0.0120               | 6.6132 E+04        |
| 12  | 0.0420            | 0.0380             | 2.6      | 0.0041               | 3.8505 E+04        |
| 13  | 0.0433            | 0.0392             | 2.6      | 0.0041               | 3.8505 E+04        |
| 14  | 0.0543            | 0.0400             | 4.8      | 0.0143               | 16.4183 E+04       |
| 15  | 0.0459            | 0.0328             | 4.6      | 0.0131               | 14.4085 E+04       |
| 16  | 0.0452            | 0.0330             | 4.5      | 0.0122               | 12.2155 E+04       |
| 17  | 0.0444            | 0.0325             | 4.4      | 0.0119               | 9.9034 E+04        |
| 18  | 0.0393            | 0.0304             | 3.8      | 0.0090               | 6.3889 E+04        |
| 19  | 0.0345            | 0.0256             | 3.8      | 0.0090               | 6.3889 E+04        |
| 20  | 0.0307            | 0.0196             | 4.2      | 0.0111               | 4.7694 E+04        |
| 21  | 0.0299            | 0.0189             | 4.2      | 0.0111               | 4.7694 E+04        |
| 22  | 0.0391            | 0.0350             | 2.6      | 0.0041               | 3.8505 E+04        |
| 23  | 0.0403            | 0.0363             | 2.6      | 0.0041               | 3.8505 E+04        |
| 24  | 0.0442            | 0.0338             | 4.1      | 0.0104               | 6.8773 E+04        |
| 25  | 0.0329            | 0.0225             | 4.1      | 0.0104               | 6.8773 E+04        |
| 26  | 0.0287            | 0.0247             | 2.6      | 0.0041               | 3.8505 E+04        |
| 27  | 0.0287            | 0.0247             | 2.6      | 0.0041               | 3.8505 E+04        |
| 28  | 0.0354            | 0.0250             | 4.1      | 0.0104               | 6.8773 E+04        |
| 29  | 0.0290            | 0.0249             | 2.6      | 0.0041               | 3.8505 E+04        |
| 30  | 0.0290            | 0.0249             | 2.6      | 0.0041               | 3.8505 E+04        |
| 31  | 0.0443            | 0.0340             | 4.1      | 0.0104               | 6.8773 E+04        |
| 32  | 0.0329            | 0.0225             | 4.1      | 0.0104               | 6.8773 E+04        |
| 33  | 0.0287            | 0.0247             | 2.6      | 0.0041               | 3.8505 E+04        |
| 34  | 0.0287            | 0.0247             | 2.6      | 0.0041               | 3.8505 E+04        |

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## SIZE DATA

System name : 0206R

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 43.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1255.6          | 5.6      | 500.0               | 450.0  | 500.0                 | 450.0  |
| 2   | REC   | 1255.6          | 5.6      | 500.0               | 450.0  | 500.0                 | 450.0  |
| 3   | REC   | 1255.6          | 5.6      | 500.0               | 450.0  | 500.0                 | 450.0  |
| 4   | REC   | 1255.6          | 5.6      | 500.0               | 450.0  | 500.0                 | 450.0  |
| 5   | REC   | 1255.6          | 5.6      | 500.0               | 450.0  | 500.0                 | 450.0  |
| 6   | REC   | 1255.6          | 5.6      | 500.0               | 450.0  | 500.0                 | 450.0  |
| 7   | REC   | 1255.6          | 5.6      | 500.0               | 450.0  | 500.0                 | 450.0  |
| 8   | REC   | 1255.6          | 5.5      | 650.0               | 350.0  | 650.0                 | 350.0  |
| 9   | REC   | 583.5           | 5.2      | 450.0               | 250.0  | 450.0                 | 250.0  |
| 10  | REC   | 180.8           | 4.0      | 300.0               | 150.0  | 300.0                 | 150.0  |
| 11  | REC   | 155.8           | 3.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 12  | REC   | 155.8           | 3.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 13  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 14  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 15  | REC   | 402.8           | 4.5      | 450.0               | 200.0  | 450.0                 | 200.0  |
| 16  | REC   | 402.8           | 4.5      | 450.0               | 200.0  | 450.0                 | 200.0  |
| 17  | REC   | 302.1           | 4.3      | 350.0               | 200.0  | 350.0                 | 200.0  |
| 18  | REC   | 302.1           | 4.3      | 350.0               | 200.0  | 350.0                 | 200.0  |
| 19  | REC   | 201.4           | 4.0      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 20  | REC   | 201.4           | 4.0      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 21  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 22  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 23  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 24  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 25  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 26  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 27  | REC   | 672.0           | 5.4      | 500.0               | 250.0  | 500.0                 | 250.0  |
| 28  | REC   | 571.3           | 5.1      | 450.0               | 250.0  | 450.0                 | 250.0  |
| 29  | REC   | 470.6           | 4.7      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 30  | REC   | 470.6           | 4.7      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 31  | REC   | 302.1           | 4.3      | 350.0               | 200.0  | 350.0                 | 200.0  |
| 32  | REC   | 302.1           | 4.3      | 350.0               | 200.0  | 350.0                 | 200.0  |
| 33  | REC   | 201.4           | 4.0      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 34  | REC   | 201.4           | 4.0      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 35  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 36  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 37  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 38  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 39  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 40  | REC   | 168.5           | 4.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 41  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 42  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 43  | REC   | 100.7           | 2.5      | 200.0               | 200.0  | 200.0                 | 200.0  |

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## PRESSURE LOSS DATA

System name : 0206R

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 43.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0006        |
| 2   | 0.0048      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0060        |
| 3   | 0.0048      | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0000          | 0.0075        |
| 4   | 0.0048      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0073        |
| 5   | 0.0048      | 0.0000                    | 0.0000                | 0.0053       | 0.0000        | 0.0000          | 0.0101        |
| 6   | 0.0048      | 0.0000                    | 0.0000                | 0.0044       | 0.0150        | 0.0000          | 0.0242        |
| 7   | 0.0048      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0057        |
| 8   | 0.0000      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0025        |
| 9   | 0.0043      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0069        |
| 10  | 0.0097      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0353          | 0.0462        |
| 11  | 0.0020      | 0.0000                    | 0.0000                | 0.0058       | 0.0000        | 0.0000          | 0.0078        |
| 12  | 0.0029      | 0.0140                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0184        |
| 13  | -0.0077     | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0160          | 0.0087        |
| 14  | 0.0003      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 15  | 0.0240      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0254        |
| 16  | 0.0009      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0028        |
| 17  | 0.0040      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0055        |
| 18  | 0.0018      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0033        |
| 19  | 0.0047      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0065        |
| 20  | 0.0011      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0029        |
| 21  | 0.0053      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0062        |
| 22  | 0.0004      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0013        |
| 23  | 0.0013      | 0.0170                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0185        |
| 24  | 0.0055      | 0.0170                    | 0.0000                | 0.0002       | 0.0000        | 0.0033          | 0.0260        |
| 25  | -0.0012     | 0.0170                    | 0.0000                | 0.0002       | 0.0000        | 0.0194          | 0.0354        |
| 26  | -0.0060     | 0.0170                    | 0.0000                | 0.0002       | 0.0000        | 0.0330          | 0.0442        |
| 27  | 0.0040      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0050          | 0.0102        |
| 28  | 0.0038      | 0.0000                    | 0.0000                | 0.0091       | 0.0000        | 0.0000          | 0.0130        |
| 29  | 0.0039      | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0000          | 0.0065        |
| 30  | 0.0041      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0053        |
| 31  | 0.0058      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0067        |
| 32  | 0.0008      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0022        |
| 33  | 0.0047      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0062        |
| 34  | 0.0015      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0032        |
| 35  | 0.0053      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0062        |
| 36  | 0.0004      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0013        |
| 37  | 0.0013      | 0.0170                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0185        |
| 38  | 0.0055      | 0.0170                    | 0.0000                | 0.0002       | 0.0000        | 0.0033          | 0.0260        |
| 39  | -0.0012     | 0.0170                    | 0.0000                | 0.0002       | 0.0000        | 0.0194          | 0.0354        |
| 40  | 0.0005      | 0.0120                    | 0.0000                | 0.0083       | 0.0000        | 0.0235          | 0.0443        |
| 41  | -0.0113     | 0.0170                    | 0.0000                | 0.0003       | 0.0000        | 0.0502          | 0.0562        |
| 42  | -0.0134     | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0635          | 0.0505        |
| 43  | 0.0013      | 0.0170                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0186        |

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## C-VALUE DATA

System name : 0206R

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 43.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0328 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2507  | 0.0000            | 0.0000        | 0.0656 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2507  | 0.0000            | 0.0000        | 0.1411 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2507  | 0.0000            | 0.0000        | 0.1292 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2507  | 0.0000            | 0.0000        | 0.2754 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2507  | 0.0000            | 0.0000        | 0.2291 | 0.7842 | 0.0000  |
| 7   | 6   | 0.2507  | 0.0000            | 0.0000        | 0.0448 | 0.0000 | 0.0000  |
| 8   | 7   | 0.0022  | 0.0000            | 0.0000        | 0.1313 | 0.0000 | 0.0000  |
| 9   | 8   | 0.2300  | 0.0000            | 0.0000        | 0.1584 | 0.0000 | 0.0000  |
| 10  | 9   | 0.5881  | 0.0000            | 0.0000        | 0.1153 | 0.0000 | 3.5652  |
| 11  | 10  | 0.2021  | 0.0000            | 0.0000        | 0.6245 | 0.0000 | 0.0000  |
| 12  | 11  | 0.3083  | 1.5032            | 0.0000        | 0.1603 | 0.0000 | 0.0000  |
| 13  | 10  | -0.7725 | 0.0000            | 0.0000        | 0.5940 | 0.0000 | 21.0339 |
| 14  | 13  | 0.4080  | 22.4158           | 0.0000        | 0.1704 | 0.0000 | 0.0000  |
| 15  | 9   | 1.4542  | 0.0000            | 0.0000        | 0.1086 | 0.0000 | 0.0000  |
| 16  | 15  | 0.0720  | 0.0000            | 0.0000        | 0.1590 | 0.0000 | 0.0000  |
| 17  | 16  | 0.3250  | 0.0000            | 0.0000        | 0.1284 | 0.0000 | 0.0000  |
| 18  | 17  | 0.1530  | 0.0000            | 0.0000        | 0.1382 | 0.0000 | 0.0000  |
| 19  | 18  | 0.4067  | 0.0000            | 0.0000        | 0.1805 | 0.0000 | 0.0000  |
| 20  | 19  | 0.1115  | 0.0000            | 0.0000        | 0.1802 | 0.0000 | 0.0000  |
| 21  | 20  | 0.5300  | 0.0000            | 0.0000        | 0.2263 | 0.0000 | 0.0000  |
| 22  | 21  | 0.1144  | 0.0000            | 0.0000        | 0.2263 | 0.0000 | 0.0000  |
| 23  | 22  | 0.3314  | 4.3665            | 0.0000        | 0.0585 | 0.0000 | 0.0000  |
| 24  | 20  | 0.5500  | 4.3665            | 0.0000        | 0.0585 | 0.0000 | 0.8472  |
| 25  | 18  | -0.1067 | 4.3665            | 0.0000        | 0.0569 | 0.0000 | 4.9742  |
| 26  | 16  | -0.4900 | 4.3665            | 0.0000        | 0.0585 | 0.0000 | 8.4679  |
| 27  | 8   | 0.2142  | 0.0000            | 0.0000        | 0.0684 | 0.0000 | 0.2800  |
| 28  | 27  | 0.2148  | 0.0000            | 0.0000        | 0.5768 | 0.0000 | 0.0000  |
| 29  | 28  | 0.2439  | 0.0000            | 0.0000        | 0.1965 | 0.0000 | 0.0000  |
| 30  | 29  | 0.3024  | 0.0000            | 0.0000        | 0.0882 | 0.0000 | 0.0000  |
| 31  | 30  | 0.4264  | 0.0000            | 0.0000        | 0.0767 | 0.0000 | 0.0000  |
| 32  | 31  | 0.0721  | 0.0000            | 0.0000        | 0.1200 | 0.0000 | 0.0000  |
| 33  | 32  | 0.4067  | 0.0000            | 0.0000        | 0.1586 | 0.0000 | 0.0000  |
| 34  | 33  | 0.1487  | 0.0000            | 0.0000        | 0.1710 | 0.0000 | 0.0000  |
| 35  | 34  | 0.5300  | 0.0000            | 0.0000        | 0.2263 | 0.0000 | 0.0000  |
| 36  | 35  | 0.1144  | 0.0000            | 0.0000        | 0.2263 | 0.0000 | 0.0000  |
| 37  | 36  | 0.3314  | 4.3665            | 0.0000        | 0.0585 | 0.0000 | 0.0000  |
| 38  | 34  | 0.5500  | 4.3665            | 0.0000        | 0.0569 | 0.0000 | 0.8488  |
| 39  | 32  | -0.1067 | 4.3665            | 0.0000        | 0.0585 | 0.0000 | 4.9882  |
| 40  | 30  | 0.0367  | 1.1008            | 0.0000        | 0.7587 | 0.0000 | 2.1591  |
| 41  | 28  | -0.7156 | 4.3665            | 0.0000        | 0.0861 | 0.0000 | 12.8829 |
| 42  | 27  | -0.7552 | 0.0000            | 0.0000        | 0.0861 | 0.0000 | 16.3224 |
| 43  | 42  | 0.3314  | 4.3665            | 0.0000        | 0.0881 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0206R

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 1255.6 L/s  |
| Fan Static Pressure .....                     | :           | 0.0817 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1431 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1431 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1431 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.2046 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.1431 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1431 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0206R

24-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 43.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1431           | -0.1623            | 5.6      | 0.0191               | 19.8219 E+04       |
| 2   | -0.1425           | -0.1616            | 5.6      | 0.0191               | 19.8219 E+04       |
| 3   | -0.1365           | -0.1556            | 5.6      | 0.0191               | 19.8219 E+04       |
| 4   | -0.1290           | -0.1481            | 5.6      | 0.0191               | 19.8219 E+04       |
| 5   | -0.1217           | -0.1408            | 5.6      | 0.0191               | 19.8219 E+04       |
| 6   | -0.1116           | -0.1308            | 5.6      | 0.0191               | 19.8219 E+04       |
| 7   | -0.0875           | -0.1066            | 5.6      | 0.0191               | 19.8219 E+04       |
| 8   | -0.0818           | -0.1005            | 5.5      | 0.0187               | 19.4884 E+04       |
| 9   | -0.0793           | -0.0958            | 5.2      | 0.0165               | 12.8953 E+04       |
| 10  | -0.0370           | -0.0470            | 4.0      | 0.0099               | 6.2897 E+04        |
| 11  | -0.0262           | -0.0355            | 3.9      | 0.0093               | 5.8338 E+04        |
| 12  | -0.0184           | -0.0277            | 3.9      | 0.0093               | 5.8338 E+04        |
| 13  | -0.0102           | -0.0110            | 1.1      | 0.0008               | 1.2485 E+04        |
| 14  | -0.0174           | -0.0182            | 1.1      | 0.0008               | 1.2485 E+04        |
| 15  | -0.0724           | -0.0847            | 4.5      | 0.0123               | 9.8589 E+04        |
| 16  | -0.0470           | -0.0593            | 4.5      | 0.0123               | 9.8589 E+04        |
| 17  | -0.0442           | -0.0556            | 4.3      | 0.0114               | 8.4715 E+04        |
| 18  | -0.0387           | -0.0501            | 4.3      | 0.0114               | 8.4715 E+04        |
| 19  | -0.0354           | -0.0453            | 4.0      | 0.0100               | 6.7368 E+04        |
| 20  | -0.0289           | -0.0389            | 4.0      | 0.0100               | 6.7368 E+04        |
| 21  | -0.0260           | -0.0299            | 2.5      | 0.0039               | 3.7718 E+04        |
| 22  | -0.0198           | -0.0237            | 2.5      | 0.0039               | 3.7718 E+04        |
| 23  | -0.0185           | -0.0224            | 2.5      | 0.0039               | 3.7718 E+04        |
| 24  | -0.0227           | -0.0266            | 2.5      | 0.0039               | 3.7718 E+04        |
| 25  | -0.0160           | -0.0199            | 2.5      | 0.0039               | 3.7718 E+04        |
| 26  | -0.0112           | -0.0151            | 2.5      | 0.0039               | 3.7718 E+04        |
| 27  | -0.0743           | -0.0921            | 5.4      | 0.0178               | 14.0305 E+04       |
| 28  | -0.0691           | -0.0850            | 5.1      | 0.0158               | 12.6246 E+04       |
| 29  | -0.0562           | -0.0698            | 4.7      | 0.0136               | 11.0722 E+04       |
| 30  | -0.0496           | -0.0632            | 4.7      | 0.0136               | 11.0722 E+04       |
| 31  | -0.0443           | -0.0557            | 4.3      | 0.0114               | 8.4715 E+04        |
| 32  | -0.0376           | -0.0491            | 4.3      | 0.0114               | 8.4715 E+04        |
| 33  | -0.0354           | -0.0454            | 4.0      | 0.0100               | 6.7368 E+04        |
| 34  | -0.0292           | -0.0392            | 4.0      | 0.0100               | 6.7368 E+04        |
| 35  | -0.0260           | -0.0299            | 2.5      | 0.0039               | 3.7718 E+04        |
| 36  | -0.0198           | -0.0237            | 2.5      | 0.0039               | 3.7718 E+04        |
| 37  | -0.0185           | -0.0224            | 2.5      | 0.0039               | 3.7718 E+04        |
| 38  | -0.0227           | -0.0266            | 2.5      | 0.0039               | 3.7718 E+04        |
| 39  | -0.0160           | -0.0199            | 2.5      | 0.0039               | 3.7718 E+04        |
| 40  | -0.0208           | -0.0317            | 4.2      | 0.0109               | 6.3114 E+04        |
| 41  | -0.0060           | -0.0099            | 2.5      | 0.0039               | 3.7718 E+04        |
| 42  | -0.0056           | -0.0095            | 2.5      | 0.0039               | 3.7718 E+04        |
| 43  | -0.0186           | -0.0225            | 2.5      | 0.0039               | 3.7718 E+04        |

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## SIZE DATA

System name : 0207I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 51.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----><br>Width Height | <----- Airflow -----><br>Width Height |
|-----|-------|-----------------|----------|-------------------------------------|---------------------------------------|
|     |       | L/s             | m/s      | mm mm                               | mm mm                                 |
| 1   | REC   | 1647.9          | 6.0      | 550.0 500.0                         | 550.0 500.0                           |
| 2   | REC   | 1647.9          | 6.0      | 550.0 500.0                         | 550.0 500.0                           |
| 3   | REC   | 1647.9          | 6.0      | 550.0 500.0                         | 550.0 500.0                           |
| 4   | REC   | 1647.9          | 6.0      | 550.0 500.0                         | 550.0 500.0                           |
| 5   | REC   | 1647.9          | 6.0      | 550.0 500.0                         | 550.0 500.0                           |
| 6   | REC   | 1647.9          | 6.0      | 550.0 500.0                         | 550.0 500.0                           |
| 7   | REC   | 1647.9          | 6.0      | 550.0 500.0                         | 550.0 500.0                           |
| 8   | REC   | 1647.9          | 6.0      | 550.0 500.0                         | 550.0 500.0                           |
| 9   | REC   | 1647.9          | 5.9      | 800.0 350.0                         | 800.0 350.0                           |
| 10  | REC   | 371.8           | 4.1      | 300.0 300.0                         | 300.0 300.0                           |
| 11  | REC   | 316.2           | 4.2      | 300.0 250.0                         | 300.0 250.0                           |
| 12  | REC   | 316.2           | 4.2      | 300.0 250.0                         | 300.0 250.0                           |
| 13  | REC   | 210.8           | 4.2      | 250.0 200.0                         | 250.0 200.0                           |
| 14  | REC   | 210.8           | 4.2      | 250.0 200.0                         | 250.0 200.0                           |
| 15  | REC   | 105.4           | 2.6      | 200.0 200.0                         | 200.0 200.0                           |
| 16  | REC   | 105.4           | 2.6      | 200.0 200.0                         | 200.0 200.0                           |
| 17  | REC   | 105.4           | 2.6      | 200.0 200.0                         | 200.0 200.0                           |
| 18  | REC   | 55.6            | 2.5      | 150.0 150.0                         | 150.0 150.0                           |
| 19  | REC   | 1276.1          | 4.9      | 750.0 350.0                         | 750.0 350.0                           |
| 20  | REC   | 1065.3          | 4.7      | 650.0 350.0                         | 650.0 350.0                           |
| 21  | REC   | 754.0           | 4.2      | 600.0 300.0                         | 600.0 300.0                           |
| 22  | REC   | 210.8           | 4.2      | 250.0 200.0                         | 250.0 200.0                           |
| 23  | REC   | 210.8           | 4.2      | 250.0 200.0                         | 250.0 200.0                           |
| 24  | REC   | 210.8           | 4.2      | 250.0 200.0                         | 250.0 200.0                           |
| 25  | REC   | 105.4           | 2.6      | 200.0 200.0                         | 200.0 200.0                           |
| 26  | REC   | 105.4           | 2.6      | 200.0 200.0                         | 200.0 200.0                           |
| 27  | REC   | 316.2           | 4.2      | 300.0 250.0                         | 300.0 250.0                           |
| 28  | REC   | 210.8           | 4.2      | 250.0 200.0                         | 250.0 200.0                           |
| 29  | REC   | 210.8           | 4.2      | 250.0 200.0                         | 250.0 200.0                           |
| 30  | REC   | 105.4           | 2.6      | 200.0 200.0                         | 200.0 200.0                           |
| 31  | REC   | 105.4           | 2.6      | 200.0 200.0                         | 200.0 200.0                           |
| 32  | REC   | 105.4           | 2.6      | 200.0 200.0                         | 200.0 200.0                           |
| 33  | REC   | 227.0           | 4.5      | 250.0 200.0                         | 250.0 200.0                           |
| 34  | REC   | 171.4           | 4.3      | 200.0 200.0                         | 200.0 200.0                           |
| 35  | REC   | 115.8           | 3.9      | 200.0 150.0                         | 200.0 150.0                           |
| 36  | REC   | 115.8           | 3.9      | 200.0 150.0                         | 200.0 150.0                           |
| 37  | REC   | 57.7            | 2.6      | 150.0 150.0                         | 150.0 150.0                           |
| 38  | REC   | 58.1            | 2.6      | 150.0 150.0                         | 150.0 150.0                           |
| 39  | REC   | 58.1            | 2.6      | 150.0 150.0                         | 150.0 150.0                           |
| 40  | REC   | 55.6            | 2.5      | 150.0 150.0                         | 150.0 150.0                           |
| 41  | REC   | 55.6            | 2.5      | 150.0 150.0                         | 150.0 150.0                           |
| 42  | REC   | 210.8           | 4.2      | 250.0 200.0                         | 250.0 200.0                           |
| 43  | REC   | 210.8           | 4.2      | 250.0 200.0                         | 250.0 200.0                           |
| 44  | REC   | 105.4           | 2.6      | 200.0 200.0                         | 200.0 200.0                           |
| 45  | REC   | 105.4           | 2.6      | 200.0 200.0                         | 200.0 200.0                           |
| 46  | REC   | 100.5           | 2.5      | 200.0 200.0                         | 200.0 200.0                           |
| 47  | REC   | 100.5           | 2.5      | 200.0 200.0                         | 200.0 200.0                           |
| 48  | REC   | 210.8           | 4.2      | 250.0 200.0                         | 250.0 200.0                           |
| 49  | REC   | 210.8           | 4.2      | 250.0 200.0                         | 250.0 200.0                           |

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SIZE DATA

System name : 0207I 28-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 2 Of 2  
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1. SIZE DATA FOR SECTIONS 1 THROUGH 51. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----><br>Width | <-----><br>Height | <----- Airflow -----><br>Width | <-----><br>Height |
|-----|-------|-----------------|----------|------------------------------|-------------------|--------------------------------|-------------------|
|     |       | L/s             | m/s      | mm                           | mm                | mm                             | mm                |
| 50  | REC   | 105.4           | 2.6      | 200.0                        | 200.0             | 200.0                          | 200.0             |
| 51  | REC   | 105.4           | 2.6      | 200.0                        | 200.0             | 200.0                          | 200.0             |

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## PRESSURE LOSS DATA

System name : 0207I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 51.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0013        |
| 2   | 0.0055      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0068        |
| 3   | 0.0055      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0079        |
| 4   | 0.0055      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0080        |
| 5   | 0.0055      | 0.0000                    | 0.0000                | 0.0054       | 0.0000        | 0.0000          | 0.0109        |
| 6   | 0.0055      | 0.0000                    | 0.0000                | 0.0017       | 0.0160        | 0.0000          | 0.0232        |
| 7   | 0.0055      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0068        |
| 8   | 0.0055      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0064        |
| 9   | 0.0002      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0019        |
| 10  | 0.0064      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0210          | 0.0281        |
| 11  | 0.0002      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0016        |
| 12  | 0.0033      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0047        |
| 13  | 0.0007      | 0.0000                    | 0.0000                | 0.0050       | 0.0000        | 0.0000          | 0.0057        |
| 14  | 0.0035      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0043        |
| 15  | 0.0029      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 16  | 0.0029      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 17  | 0.0038      | 0.0250                    | 0.0000                | 0.0007       | 0.0000        | 0.0094          | 0.0389        |
| 18  | 0.0044      | 0.0030                    | 0.0000                | 0.0005       | 0.0000        | 0.0373          | 0.0452        |
| 19  | 0.0055      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0071        |
| 20  | -0.0003     | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0013        |
| 21  | 0.0001      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0008          | 0.0040        |
| 22  | 0.0000      | 0.0000                    | 0.0000                | 0.0083       | 0.0000        | 0.0091          | 0.0173        |
| 23  | 0.0035      | 0.0000                    | 0.0000                | 0.0069       | 0.0000        | 0.0000          | 0.0104        |
| 24  | 0.0035      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0044        |
| 25  | 0.0029      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 26  | 0.0029      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 27  | 0.0160      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0043          | 0.0219        |
| 28  | 0.0007      | 0.0000                    | 0.0000                | 0.0050       | 0.0000        | 0.0000          | 0.0057        |
| 29  | 0.0035      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0047        |
| 30  | 0.0029      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 31  | 0.0029      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 32  | 0.0038      | 0.0250                    | 0.0000                | 0.0004       | 0.0000        | 0.0099          | 0.0391        |
| 33  | 0.0221      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0231        |
| 34  | -0.0005     | 0.0000                    | 0.0000                | 0.0057       | 0.0000        | 0.0000          | 0.0052        |
| 35  | 0.0003      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0008        |
| 36  | 0.0032      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0050        |
| 37  | 0.0025      | 0.0220                    | 0.0000                | 0.0015       | 0.0000        | 0.0008          | 0.0268        |
| 38  | 0.0025      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0030        |
| 39  | 0.0014      | 0.0220                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0238        |
| 40  | 0.0039      | 0.0030                    | 0.0000                | 0.0003       | 0.0000        | 0.0254          | 0.0326        |
| 41  | 0.0053      | 0.0030                    | 0.0000                | 0.0004       | 0.0000        | 0.0292          | 0.0379        |
| 42  | 0.0241      | 0.0000                    | 0.0000                | 0.0069       | 0.0000        | 0.0000          | 0.0310        |
| 43  | 0.0035      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0051        |
| 44  | 0.0029      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 45  | 0.0029      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 46  | 0.0201      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0198          | 0.0410        |
| 47  | 0.0013      | 0.0220                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0239        |
| 48  | 0.0075      | 0.0000                    | 0.0000                | 0.0069       | 0.0000        | 0.0183          | 0.0327        |
| 49  | 0.0035      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0047        |
| 50  | 0.0029      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |



## PRESSURE LOSS DATA

System name : 0207I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 51. (Continued)

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 51  | 0.0029      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |

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## C-VALUE DATA

System name : 0207I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 51.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0575 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2499  | 0.0000            | 0.0000        | 0.0575 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2499  | 0.0000            | 0.0000        | 0.1079 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2499  | 0.0000            | 0.0000        | 0.1131 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2499  | 0.0000            | 0.0000        | 0.2445 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2499  | 0.0000            | 0.0000        | 0.0765 | 0.7253 | 0.0000  |
| 7   | 6   | 0.2499  | 0.0000            | 0.0000        | 0.0592 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2499  | 0.0000            | 0.0000        | 0.0394 | 0.0000 | 0.0000  |
| 9   | 8   | 0.0086  | 0.0000            | 0.0000        | 0.0807 | 0.0000 | 0.0000  |
| 10  | 9   | 0.3000  | 0.0000            | 0.0000        | 0.0634 | 0.0000 | 2.0059  |
| 11  | 10  | 0.0178  | 0.0000            | 0.0000        | 0.1321 | 0.0000 | 0.0000  |
| 12  | 11  | 0.3025  | 0.0000            | 0.0000        | 0.1324 | 0.0000 | 0.0000  |
| 13  | 12  | 0.0618  | 0.0000            | 0.0000        | 0.4620 | 0.0000 | 0.0000  |
| 14  | 13  | 0.3205  | 0.0000            | 0.0000        | 0.0767 | 0.0000 | 0.0000  |
| 15  | 14  | 0.2700  | 5.8614            | 0.0000        | 0.2032 | 0.0000 | 0.0000  |
| 16  | 14  | 0.2700  | 5.8614            | 0.0000        | 0.2032 | 0.0000 | 0.0000  |
| 17  | 12  | 0.3493  | 5.8614            | 0.0000        | 0.1644 | 0.0000 | 2.1936  |
| 18  | 10  | 0.4157  | 0.7998            | 0.0000        | 0.1464 | 0.0000 | 9.9544  |
| 19  | 9   | 0.2562  | 0.0000            | 0.0000        | 0.1149 | 0.0000 | 0.0000  |
| 20  | 19  | -0.0230 | 0.0000            | 0.0000        | 0.1189 | 0.0000 | 0.0000  |
| 21  | 20  | 0.0105  | 0.0000            | 0.0000        | 0.2756 | 0.0000 | 0.0777  |
| 22  | 21  | 0.0000  | 0.0000            | 0.0000        | 0.7565 | 0.0000 | 0.8296  |
| 23  | 22  | 0.3205  | 0.0000            | 0.0000        | 0.6326 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3205  | 0.0000            | 0.0000        | 0.0869 | 0.0000 | 0.0000  |
| 25  | 24  | 0.2700  | 5.8614            | 0.0000        | 0.2032 | 0.0000 | 0.0000  |
| 26  | 24  | 0.2700  | 5.8614            | 0.0000        | 0.2032 | 0.0000 | 0.0000  |
| 27  | 21  | 1.4887  | 0.0000            | 0.0000        | 0.1364 | 0.0000 | 0.3957  |
| 28  | 27  | 0.0618  | 0.0000            | 0.0000        | 0.4568 | 0.0000 | 0.0000  |
| 29  | 28  | 0.3205  | 0.0000            | 0.0000        | 0.1057 | 0.0000 | 0.0000  |
| 30  | 29  | 0.2700  | 5.8614            | 0.0000        | 0.2032 | 0.0000 | 0.0000  |
| 31  | 29  | 0.2700  | 5.8614            | 0.0000        | 0.2032 | 0.0000 | 0.0000  |
| 32  | 27  | 0.3493  | 5.8614            | 0.0000        | 0.1036 | 0.0000 | 2.3152  |
| 33  | 21  | 2.0514  | 0.0000            | 0.0000        | 0.0795 | 0.0000 | 0.0000  |
| 34  | 33  | -0.0384 | 0.0000            | 0.0000        | 0.5066 | 0.0000 | 0.0000  |
| 35  | 34  | 0.0227  | 0.0000            | 0.0000        | 0.0630 | 0.0000 | 0.0000  |
| 36  | 35  | 0.3474  | 0.0000            | 0.0000        | 0.1960 | 0.0000 | 0.0000  |
| 37  | 36  | 0.2750  | 5.4457            | 0.0000        | 0.3639 | 0.0000 | 0.2102  |
| 38  | 36  | 0.2750  | 0.0000            | 0.0000        | 0.1286 | 0.0000 | 0.0000  |
| 39  | 38  | 0.3471  | 5.3710            | 0.0000        | 0.0906 | 0.0000 | 0.0000  |
| 40  | 34  | 0.3458  | 0.7998            | 0.0000        | 0.0789 | 0.0000 | 6.7834  |
| 41  | 33  | 0.4152  | 0.7998            | 0.0000        | 0.0972 | 0.0000 | 7.7970  |
| 42  | 20  | 1.7896  | 0.0000            | 0.0000        | 0.6326 | 0.0000 | 0.0000  |
| 43  | 42  | 0.3205  | 0.0000            | 0.0000        | 0.1475 | 0.0000 | 0.0000  |
| 44  | 43  | 0.2700  | 5.8614            | 0.0000        | 0.2032 | 0.0000 | 0.0000  |
| 45  | 43  | 0.2700  | 5.8614            | 0.0000        | 0.2032 | 0.0000 | 0.0000  |
| 46  | 20  | 1.4934  | 0.0000            | 0.0000        | 0.2879 | 0.0000 | 5.0952  |
| 47  | 46  | 0.3316  | 5.6732            | 0.0000        | 0.1705 | 0.0000 | 0.0000  |
| 48  | 19  | 0.5174  | 0.0000            | 0.0000        | 0.6326 | 0.0000 | 1.6737  |
| 49  | 48  | 0.3205  | 0.0000            | 0.0000        | 0.1095 | 0.0000 | 0.0000  |
| 50  | 49  | 0.2700  | 5.8614            | 0.0000        | 0.2032 | 0.0000 | 0.0000  |
| 51  | 49  | 0.2700  | 5.8614            | 0.0000        | 0.2032 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0207I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| -----   |             |            |
| Fan Airflow Rate .....                        | :           | 1647.9 L/s |
| Fan Static Pressure .....                     | :           | 0.0851 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.1465 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.1465 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.1465 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.0851 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| -----                       |   |            |
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| -----                         |   |            |
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.1465 kPa |
| Total Downstream Losses ..... | : | 0.1465 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| -----                     |   |                |
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| -----                     |   |                |

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## PRESSURE LOSS DATA II

System name : 0207I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 51.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.1465            | 0.1244             | 6.0      | 0.0221               | 23.5339 E+04       |
| 2   | 0.1452            | 0.1232             | 6.0      | 0.0221               | 23.5339 E+04       |
| 3   | 0.1384            | 0.1164             | 6.0      | 0.0221               | 23.5339 E+04       |
| 4   | 0.1305            | 0.1085             | 6.0      | 0.0221               | 23.5339 E+04       |
| 5   | 0.1225            | 0.1005             | 6.0      | 0.0221               | 23.5339 E+04       |
| 6   | 0.1116            | 0.0896             | 6.0      | 0.0221               | 23.5339 E+04       |
| 7   | 0.0884            | 0.0664             | 6.0      | 0.0221               | 23.5339 E+04       |
| 8   | 0.0816            | 0.0596             | 6.0      | 0.0221               | 23.5339 E+04       |
| 9   | 0.0752            | 0.0540             | 5.9      | 0.0213               | 22.8498 E+04       |
| 10  | 0.0523            | 0.0418             | 4.1      | 0.0105               | 9.2841 E+04        |
| 11  | 0.0452            | 0.0343             | 4.2      | 0.0109               | 8.6404 E+04        |
| 12  | 0.0436            | 0.0327             | 4.2      | 0.0109               | 8.6404 E+04        |
| 13  | 0.0389            | 0.0280             | 4.2      | 0.0109               | 7.0512 E+04        |
| 14  | 0.0332            | 0.0222             | 4.2      | 0.0109               | 7.0512 E+04        |
| 15  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9479 E+04        |
| 16  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9479 E+04        |
| 17  | 0.0295            | 0.0252             | 2.6      | 0.0043               | 3.9479 E+04        |
| 18  | 0.0079            | 0.0042             | 2.5      | 0.0038               | 2.7767 E+04        |
| 19  | 0.0733            | 0.0588             | 4.9      | 0.0145               | 18.3304 E+04       |
| 20  | 0.0662            | 0.0527             | 4.7      | 0.0135               | 16.5354 E+04       |
| 21  | 0.0641            | 0.0533             | 4.2      | 0.0108               | 13.1188 E+04       |
| 22  | 0.0519            | 0.0410             | 4.2      | 0.0109               | 7.0512 E+04        |
| 23  | 0.0437            | 0.0328             | 4.2      | 0.0109               | 7.0512 E+04        |
| 24  | 0.0333            | 0.0223             | 4.2      | 0.0109               | 7.0512 E+04        |
| 25  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9479 E+04        |
| 26  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9479 E+04        |
| 27  | 0.0567            | 0.0457             | 4.2      | 0.0109               | 8.6404 E+04        |
| 28  | 0.0391            | 0.0282             | 4.2      | 0.0109               | 7.0512 E+04        |
| 29  | 0.0335            | 0.0225             | 4.2      | 0.0109               | 7.0512 E+04        |
| 30  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9479 E+04        |
| 31  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9479 E+04        |
| 32  | 0.0293            | 0.0250             | 2.6      | 0.0043               | 3.9479 E+04        |
| 33  | 0.0610            | 0.0483             | 4.5      | 0.0127               | 7.5931 E+04        |
| 34  | 0.0379            | 0.0266             | 4.3      | 0.0113               | 6.4200 E+04        |
| 35  | 0.0326            | 0.0235             | 3.9      | 0.0092               | 4.9955 E+04        |
| 36  | 0.0318            | 0.0227             | 3.9      | 0.0092               | 4.9955 E+04        |
| 37  | 0.0260            | 0.0219             | 2.6      | 0.0040               | 2.8816 E+04        |
| 38  | 0.0268            | 0.0227             | 2.6      | 0.0041               | 2.9016 E+04        |
| 39  | 0.0238            | 0.0197             | 2.6      | 0.0041               | 2.9016 E+04        |
| 40  | 0.0072            | 0.0034             | 2.5      | 0.0038               | 2.7767 E+04        |
| 41  | 0.0086            | 0.0049             | 2.5      | 0.0038               | 2.7767 E+04        |
| 42  | 0.0649            | 0.0540             | 4.2      | 0.0109               | 7.0512 E+04        |
| 43  | 0.0339            | 0.0230             | 4.2      | 0.0109               | 7.0512 E+04        |
| 44  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9479 E+04        |
| 45  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9479 E+04        |
| 46  | 0.0452            | 0.0413             | 2.5      | 0.0039               | 3.7643 E+04        |
| 47  | 0.0239            | 0.0201             | 2.5      | 0.0039               | 3.7643 E+04        |
| 48  | 0.0479            | 0.0370             | 4.2      | 0.0109               | 7.0512 E+04        |
| 49  | 0.0335            | 0.0226             | 4.2      | 0.0109               | 7.0512 E+04        |
| 50  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9479 E+04        |
| 51  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9479 E+04        |



## SIZE DATA

System name : 0207R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 67.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----><br>Width Height | <----- Airflow -----><br>Width Height |
|-----|-------|-----------------|----------|-------------------------------------|---------------------------------------|
|     |       | L/s             | m/s      | mm mm                               | mm mm                                 |
| 1   | REC   | 1483.8          | 5.4      | 550.0                               | 500.0                                 |
| 2   | REC   | 1483.8          | 5.4      | 550.0                               | 500.0                                 |
| 3   | REC   | 1483.8          | 5.4      | 550.0                               | 500.0                                 |
| 4   | REC   | 1483.8          | 5.4      | 550.0                               | 500.0                                 |
| 5   | REC   | 1483.8          | 5.4      | 550.0                               | 500.0                                 |
| 6   | REC   | 1483.8          | 5.4      | 550.0                               | 500.0                                 |
| 7   | REC   | 1483.8          | 5.4      | 550.0                               | 500.0                                 |
| 8   | REC   | 1483.8          | 5.4      | 550.0                               | 500.0                                 |
| 9   | REC   | 1483.8          | 5.3      | 800.0                               | 350.0                                 |
| 10  | REC   | 1077.9          | 5.1      | 600.0                               | 350.0                                 |
| 11  | REC   | 1027.9          | 4.9      | 600.0                               | 350.0                                 |
| 12  | REC   | 801.0           | 5.3      | 500.0                               | 300.0                                 |
| 13  | REC   | 497.5           | 5.0      | 400.0                               | 250.0                                 |
| 14  | REC   | 312.2           | 4.2      | 300.0                               | 250.0                                 |
| 15  | REC   | 270.6           | 4.3      | 250.0                               | 250.0                                 |
| 16  | REC   | 270.6           | 4.3      | 250.0                               | 250.0                                 |
| 17  | REC   | 135.3           | 3.4      | 200.0                               | 200.0                                 |
| 18  | REC   | 135.3           | 3.4      | 200.0                               | 200.0                                 |
| 19  | REC   | 135.3           | 3.4      | 200.0                               | 200.0                                 |
| 20  | REC   | 135.3           | 3.4      | 200.0                               | 200.0                                 |
| 21  | REC   | 41.6            | 1.8      | 150.0                               | 150.0                                 |
| 22  | REC   | 185.3           | 3.7      | 250.0                               | 200.0                                 |
| 23  | REC   | 135.3           | 3.4      | 200.0                               | 200.0                                 |
| 24  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 25  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 26  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 27  | REC   | 303.5           | 4.3      | 350.0                               | 200.0                                 |
| 28  | REC   | 253.5           | 4.2      | 300.0                               | 200.0                                 |
| 29  | REC   | 210.0           | 4.2      | 250.0                               | 200.0                                 |
| 30  | REC   | 134.8           | 4.5      | 200.0                               | 150.0                                 |
| 31  | REC   | 68.2            | 3.0      | 150.0                               | 150.0                                 |
| 32  | REC   | 68.2            | 3.0      | 150.0                               | 150.0                                 |
| 33  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 34  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 35  | REC   | 43.2            | 1.9      | 150.0                               | 150.0                                 |
| 36  | REC   | 66.6            | 3.0      | 150.0                               | 150.0                                 |
| 37  | REC   | 41.6            | 1.8      | 150.0                               | 150.0                                 |
| 38  | REC   | 41.6            | 1.8      | 150.0                               | 150.0                                 |
| 39  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 40  | REC   | 75.2            | 3.3      | 150.0                               | 150.0                                 |
| 41  | REC   | 75.2            | 3.3      | 150.0                               | 150.0                                 |
| 42  | REC   | 43.5            | 1.9      | 150.0                               | 150.0                                 |
| 43  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 44  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 45  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 46  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 47  | REC   | 226.9           | 4.5      | 250.0                               | 200.0                                 |
| 48  | REC   | 185.3           | 3.7      | 250.0                               | 200.0                                 |
| 49  | REC   | 160.3           | 4.0      | 200.0                               | 200.0                                 |

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## SIZE DATA

System name : 0207R

28-02-20

Prepared by : G.O.C.

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E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 67. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity <-----<br>m/s | Metal <-----><br>Width Height | <-----><br>Width Height | Airflow <-----><br>Width Height | <-----><br>Width Height |
|-----|-------|-----------------|------------------------|-------------------------------|-------------------------|---------------------------------|-------------------------|
|     |       | L/s             | m/s                    | mm                            | mm                      | mm                              | mm                      |
| 50  | REC   | 135.3           | 3.4                    | 200.0                         | 200.0                   | 200.0                           | 200.0                   |
| 51  | REC   | 135.3           | 3.4                    | 200.0                         | 200.0                   | 200.0                           | 200.0                   |
| 52  | REC   | 25.0            | 1.1                    | 150.0                         | 150.0                   | 150.0                           | 150.0                   |
| 53  | REC   | 25.0            | 1.1                    | 150.0                         | 150.0                   | 150.0                           | 150.0                   |
| 54  | REC   | 41.6            | 1.8                    | 150.0                         | 150.0                   | 150.0                           | 150.0                   |
| 55  | REC   | 50.0            | 2.2                    | 150.0                         | 150.0                   | 150.0                           | 150.0                   |
| 56  | REC   | 25.0            | 1.1                    | 150.0                         | 150.0                   | 150.0                           | 150.0                   |
| 57  | REC   | 25.0            | 1.1                    | 150.0                         | 150.0                   | 150.0                           | 150.0                   |
| 58  | REC   | 405.9           | 4.6                    | 350.0                         | 250.0                   | 350.0                           | 250.0                   |
| 59  | REC   | 270.6           | 4.3                    | 250.0                         | 250.0                   | 250.0                           | 250.0                   |
| 60  | REC   | 270.6           | 4.3                    | 250.0                         | 250.0                   | 250.0                           | 250.0                   |
| 61  | REC   | 270.6           | 4.3                    | 250.0                         | 250.0                   | 250.0                           | 250.0                   |
| 62  | REC   | 270.6           | 4.3                    | 250.0                         | 250.0                   | 250.0                           | 250.0                   |
| 63  | REC   | 270.6           | 4.3                    | 250.0                         | 250.0                   | 250.0                           | 250.0                   |
| 64  | REC   | 135.3           | 3.4                    | 200.0                         | 200.0                   | 200.0                           | 200.0                   |
| 65  | REC   | 135.3           | 3.4                    | 200.0                         | 200.0                   | 200.0                           | 200.0                   |
| 66  | REC   | 135.3           | 3.4                    | 200.0                         | 200.0                   | 200.0                           | 200.0                   |
| 67  | REC   | 135.3           | 3.4                    | 200.0                         | 200.0                   | 200.0                           | 200.0                   |

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## PRESSURE LOSS DATA

System name : 0207R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 67.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0010        |
| 2   | 0.0045      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0055        |
| 3   | 0.0045      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0064        |
| 4   | 0.0045      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0065        |
| 5   | 0.0045      | 0.0000                    | 0.0000                | 0.0044       | 0.0000        | 0.0000          | 0.0089        |
| 6   | 0.0045      | 0.0000                    | 0.0000                | 0.0008       | 0.0130        | 0.0000          | 0.0183        |
| 7   | 0.0045      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0058        |
| 8   | 0.0045      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0051        |
| 9   | 0.0001      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0013        |
| 10  | 0.0026      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0037        |
| 11  | 0.0012      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0031        |
| 12  | 0.0043      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0074        |
| 13  | 0.0078      | 0.0000                    | 0.0000                | 0.0061       | 0.0000        | 0.0000          | 0.0139        |
| 14  | 0.0067      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0086        |
| 15  | 0.0021      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0045        |
| 16  | 0.0033      | 0.0000                    | 0.0000                | 0.0045       | 0.0000        | 0.0000          | 0.0078        |
| 17  | 0.0061      | 0.0000                    | 0.0000                | 0.0053       | 0.0000        | 0.0000          | 0.0114        |
| 18  | 0.0022      | 0.0140                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0170        |
| 19  | 0.0063      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0044          | 0.0115        |
| 20  | 0.0022      | 0.0140                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0170        |
| 21  | -0.0083     | 0.0030                    | 0.0000                | 0.0002       | 0.0000        | 0.0458          | 0.0407        |
| 22  | 0.0018      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0040          | 0.0082        |
| 23  | 0.0057      | 0.0140                    | 0.0000                | 0.0068       | 0.0000        | 0.0146          | 0.0411        |
| 24  | 0.0008      | 0.0400                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0411        |
| 25  | 0.0008      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0226          | 0.0236        |
| 26  | 0.0003      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 27  | 0.0028      | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0084          | 0.0138        |
| 28  | 0.0058      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0065        |
| 29  | 0.0026      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0044        |
| 30  | 0.0046      | 0.0000                    | 0.0000                | 0.0051       | 0.0000        | 0.0000          | 0.0098        |
| 31  | 0.0019      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0025        |
| 32  | 0.0019      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0023        |
| 33  | 0.0033      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0032          | 0.0065        |
| 34  | 0.0003      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 35  | 0.0067      | 0.0170                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0239        |
| 36  | 0.0019      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0072          | 0.0108        |
| 37  | 0.0024      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0108          | 0.0138        |
| 38  | 0.0008      | 0.0030                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0041        |
| 39  | 0.0007      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0179        |
| 40  | 0.0004      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0158          | 0.0184        |
| 41  | 0.0023      | 0.0170                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0201        |
| 42  | -0.0079     | 0.0170                    | 0.0000                | 0.0005       | 0.0000        | 0.0333          | 0.0429        |
| 43  | -0.0027     | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0344          | 0.0320        |
| 44  | 0.0003      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 45  | -0.0027     | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0345          | 0.0320        |
| 46  | 0.0003      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 47  | -0.0088     | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0388          | 0.0307        |
| 48  | 0.0032      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0045        |
| 49  | 0.0017      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0025        |
| 50  | 0.0022      | 0.0000                    | 0.0000                | 0.0068       | 0.0000        | 0.0072          | 0.0161        |



## PRESSURE LOSS DATA

System name : 0207R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 67. (Continued)

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 51  | 0.0022      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0167        |
| 52  | -0.0074     | 0.0400                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0329        |
| 53  | -0.0066     | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0248          | 0.0353        |
| 54  | -0.0089     | 0.0030                    | 0.0000                | 0.0002       | 0.0000        | 0.0455          | 0.0398        |
| 55  | -0.0134     | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0685          | 0.0563        |
| 56  | 0.0002      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 57  | 0.0002      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 58  | 0.0040      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0160          | 0.0211        |
| 59  | 0.0054      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0068        |
| 60  | 0.0033      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0045        |
| 61  | 0.0033      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0047        |
| 62  | 0.0033      | 0.0000                    | 0.0000                | 0.0035       | 0.0000        | 0.0000          | 0.0068        |
| 63  | 0.0033      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0052        |
| 64  | 0.0061      | 0.0140                    | 0.0000                | 0.0006       | 0.0000        | 0.0076          | 0.0283        |
| 65  | 0.0063      | 0.0000                    | 0.0000                | 0.0052       | 0.0000        | 0.0000          | 0.0115        |
| 66  | 0.0022      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0167        |
| 67  | -0.0014     | 0.0140                    | 0.0000                | 0.0091       | 0.0000        | 0.0345          | 0.0562        |

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C-VALUE DATA

System name : 0207R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. C-VALUE DATA FOR SECTIONS 1 THROUGH 67.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0583 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2499  | 0.0000            | 0.0000        | 0.0583 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2499  | 0.0000            | 0.0000        | 0.1094 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2499  | 0.0000            | 0.0000        | 0.1147 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2499  | 0.0000            | 0.0000        | 0.2480 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2499  | 0.0000            | 0.0000        | 0.0460 | 0.7269 | 0.0000  |
| 7   | 6   | 0.2499  | 0.0000            | 0.0000        | 0.0734 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2499  | 0.0000            | 0.0000        | 0.0348 | 0.0000 | 0.0000  |
| 9   | 8   | 0.0036  | 0.0000            | 0.0000        | 0.0707 | 0.0000 | 0.0000  |
| 10  | 9   | 0.1500  | 0.0000            | 0.0000        | 0.0703 | 0.0000 | 0.0000  |
| 11  | 10  | 0.0742  | 0.0000            | 0.0000        | 0.1309 | 0.0000 | 0.0000  |
| 12  | 11  | 0.2928  | 0.0000            | 0.0000        | 0.1748 | 0.0000 | 0.0000  |
| 13  | 12  | 0.4431  | 0.0000            | 0.0000        | 0.4020 | 0.0000 | 0.0000  |
| 14  | 13  | 0.4380  | 0.0000            | 0.0000        | 0.1780 | 0.0000 | 0.0000  |
| 15  | 14  | 0.1966  | 0.0000            | 0.0000        | 0.2058 | 0.0000 | 0.0000  |
| 16  | 15  | 0.2889  | 0.0000            | 0.0000        | 0.3878 | 0.0000 | 0.0000  |
| 17  | 16  | 0.5300  | 0.0000            | 0.0000        | 0.7574 | 0.0000 | 0.0000  |
| 18  | 17  | 0.3164  | 1.9919            | 0.0000        | 0.1155 | 0.0000 | 0.0000  |
| 19  | 16  | 0.5500  | 0.0000            | 0.0000        | 0.1155 | 0.0000 | 0.6196  |
| 20  | 19  | 0.3164  | 1.9919            | 0.0000        | 0.1050 | 0.0000 | 0.0000  |
| 21  | 14  | -0.7801 | 1.4286            | 0.0000        | 0.1183 | 0.0000 | 21.7970 |
| 22  | 13  | 0.1203  | 0.0000            | 0.0000        | 0.2843 | 0.0000 | 0.4721  |
| 23  | 22  | 0.6717  | 1.9919            | 0.0000        | 0.9617 | 0.0000 | 2.0821  |
| 24  | 22  | 0.0997  | 52.7429           | 0.0000        | 0.2890 | 0.0000 | 0.0000  |
| 25  | 22  | 0.0997  | 0.0000            | 0.0000        | 0.2201 | 0.0000 | 29.8380 |
| 26  | 25  | 0.4080  | 22.4158           | 0.0000        | 0.1502 | 0.0000 | 0.0000  |
| 27  | 12  | 0.1576  | 0.0000            | 0.0000        | 0.2305 | 0.0000 | 0.7262  |
| 28  | 27  | 0.5001  | 0.0000            | 0.0000        | 0.0648 | 0.0000 | 0.0000  |
| 29  | 28  | 0.2388  | 0.0000            | 0.0000        | 0.1631 | 0.0000 | 0.0000  |
| 30  | 29  | 0.4265  | 0.0000            | 0.0000        | 0.4152 | 0.0000 | 0.0000  |
| 31  | 30  | 0.1500  | 0.0000            | 0.0000        | 0.1211 | 0.0000 | 0.0000  |
| 32  | 31  | 0.3376  | 0.0000            | 0.0000        | 0.0646 | 0.0000 | 0.0000  |
| 33  | 32  | 0.5767  | 0.0000            | 0.0000        | 0.0849 | 0.0000 | 4.1983  |
| 34  | 33  | 0.4080  | 22.4158           | 0.0000        | 0.0899 | 0.0000 | 0.0000  |
| 35  | 32  | 1.1871  | 7.5070            | 0.0000        | 0.0798 | 0.0000 | 0.0000  |
| 36  | 30  | 0.1500  | 0.0000            | 0.0000        | 0.3248 | 0.0000 | 1.3419  |
| 37  | 36  | 0.4403  | 0.0000            | 0.0000        | 0.2738 | 0.0000 | 5.1648  |
| 38  | 37  | 0.3696  | 1.4286            | 0.0000        | 0.1413 | 0.0000 | 0.0000  |
| 39  | 36  | 0.1372  | 22.4158           | 0.0000        | 0.1647 | 0.0000 | 0.0000  |
| 40  | 29  | 0.0370  | 0.0000            | 0.0000        | 0.3171 | 0.0000 | 2.3030  |
| 41  | 40  | 0.3317  | 2.4774            | 0.0000        | 0.1180 | 0.0000 | 0.0000  |
| 42  | 28  | -0.7226 | 7.4038            | 0.0000        | 0.2122 | 0.0000 | 14.4971 |
| 43  | 27  | -0.2360 | 0.0000            | 0.0000        | 0.3995 | 0.0000 | 45.3556 |
| 44  | 43  | 0.4080  | 22.4158           | 0.0000        | 0.0674 | 0.0000 | 0.0000  |
| 45  | 27  | -0.2360 | 0.0000            | 0.0000        | 0.2395 | 0.0000 | 45.5156 |
| 46  | 45  | 0.4080  | 22.4158           | 0.0000        | 0.0674 | 0.0000 | 0.0000  |
| 47  | 11  | -0.6012 | 0.0000            | 0.0000        | 0.0605 | 0.0000 | 3.0682  |
| 48  | 47  | 0.2517  | 0.0000            | 0.0000        | 0.1504 | 0.0000 | 0.0000  |
| 49  | 48  | 0.1984  | 0.0000            | 0.0000        | 0.0805 | 0.0000 | 0.0000  |
| 50  | 49  | 0.2216  | 0.0000            | 0.0000        | 0.9617 | 0.0000 | 1.0223  |
| 51  | 50  | 0.3164  | 1.9919            | 0.0000        | 0.0726 | 0.0000 | 0.0000  |
| 52  | 49  | -0.7461 | 52.7429           | 0.0000        | 0.2958 | 0.0000 | 0.0000  |
| 53  | 48  | -0.7776 | 22.4158           | 0.0000        | 0.1325 | 0.0000 | 32.6912 |



## C-VALUE DATA

System name : 0207R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 67. (Continued)

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 54  | 47  | -0.7050 | 1.4286            | 0.0000        | 0.0905 | 0.0000 | 21.6742 |
| 55  | 10  | -0.8300 | 0.0000            | 0.0000        | 0.3871 | 0.0000 | 22.5949 |
| 56  | 55  | 0.0700  | 22.4158           | 0.0000        | 0.1945 | 0.0000 | 0.0000  |
| 57  | 55  | 0.0700  | 22.4158           | 0.0000        | 0.1945 | 0.0000 | 0.0000  |
| 58  | 9   | 0.2300  | 0.0000            | 0.0000        | 0.0872 | 0.0000 | 1.2122  |
| 59  | 58  | 0.4067  | 0.0000            | 0.0000        | 0.1278 | 0.0000 | 0.0000  |
| 60  | 59  | 0.2889  | 0.0000            | 0.0000        | 0.0980 | 0.0000 | 0.0000  |
| 61  | 60  | 0.2889  | 0.0000            | 0.0000        | 0.1159 | 0.0000 | 0.0000  |
| 62  | 61  | 0.2889  | 0.0000            | 0.0000        | 0.3049 | 0.0000 | 0.0000  |
| 63  | 62  | 0.2889  | 0.0000            | 0.0000        | 0.1602 | 0.0000 | 0.0000  |
| 64  | 63  | 0.5300  | 1.9919            | 0.0000        | 0.0811 | 0.0000 | 1.0785  |
| 65  | 63  | 0.5500  | 0.0000            | 0.0000        | 0.7366 | 0.0000 | 0.0000  |
| 66  | 65  | 0.3164  | 1.9919            | 0.0000        | 0.0739 | 0.0000 | 0.0000  |
| 67  | 58  | -0.1067 | 1.9919            | 0.0000        | 1.2935 | 0.0000 | 4.9150  |

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## FAN DATA PRINTOUT

System name : 0207R 28-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
 \*\*\*\*\*

## Fan Selection Parameters (Return System)

```

-----
Fan Airflow Rate ..... : 1483.8 L/s
Fan Static Pressure ..... : 0.0748 kPa
-----
Total Pressure Difference Across Fan ..... : 0.1362 kPa
Static Pressure Difference Across Fan ..... : 0.1362 kPa
Velocity Pressure Difference Across Fan ..... : 0.0000 kPa
-----
Fan Inlet / Outlet Data                At Inlet                At Outlet
-----
Total Pressure ..... : -0.1362 kPa                0.0000 kPa
Static Pressure ..... : -0.1976 kPa                -0.0614 kPa
Velocity Pressure ..... : 0.0614 kPa                0.0614 kPa
Velocity ..... : 10.0 m/s                10.0 m/s
-----

```

## Losses Upstream of Fan

```

-----
Return System Loss ..... : -0.1362 kPa
Filter Loss ..... : 0.0000 kPa
Other Upstream Losses ..... : 0.0000 kPa
Total Upstream Losses ..... : -0.1362 kPa
-----

```

## Losses Downstream of Fan

```

-----
Filter Loss ..... : 0.0000 kPa
Other Downstream Losses ..... : 0.0000 kPa
Total Downstream Losses ..... : 0.0000 kPa
-----

```

## Psychrometric Properties

```

-----
Altitude ..... : 0.0 m
Temperature ..... : 12.8 C
Relative Humidity ..... : 100.0 %
Density ..... : 1.2296 kg/cu m
Viscosity ..... : 0.0040 sqm/s
Barometric Pressure ..... : 101.3260 kPa
Vapor Pressure ..... : 1.4734 kPa
-----

```

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## PRESSURE LOSS DATA II

System name : 0207R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 67.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1362           | -0.1541            | 5.4      | 0.0179               | 21.1904 E+04       |
| 2   | -0.1352           | -0.1531            | 5.4      | 0.0179               | 21.1904 E+04       |
| 3   | -0.1297           | -0.1475            | 5.4      | 0.0179               | 21.1904 E+04       |
| 4   | -0.1232           | -0.1411            | 5.4      | 0.0179               | 21.1904 E+04       |
| 5   | -0.1167           | -0.1346            | 5.4      | 0.0179               | 21.1904 E+04       |
| 6   | -0.1078           | -0.1257            | 5.4      | 0.0179               | 21.1904 E+04       |
| 7   | -0.0895           | -0.1074            | 5.4      | 0.0179               | 21.1904 E+04       |
| 8   | -0.0837           | -0.1016            | 5.4      | 0.0179               | 21.1904 E+04       |
| 9   | -0.0787           | -0.0959            | 5.3      | 0.0173               | 20.5744 E+04       |
| 10  | -0.0774           | -0.0936            | 5.1      | 0.0162               | 17.4633 E+04       |
| 11  | -0.0736           | -0.0884            | 4.9      | 0.0147               | 16.6532 E+04       |
| 12  | -0.0705           | -0.0880            | 5.3      | 0.0175               | 15.3687 E+04       |
| 13  | -0.0631           | -0.0783            | 5.0      | 0.0152               | 11.7051 E+04       |
| 14  | -0.0493           | -0.0599            | 4.2      | 0.0106               | 8.5311 E+04        |
| 15  | -0.0407           | -0.0522            | 4.3      | 0.0115               | 8.1085 E+04        |
| 16  | -0.0363           | -0.0478            | 4.3      | 0.0115               | 8.1085 E+04        |
| 17  | -0.0285           | -0.0355            | 3.4      | 0.0070               | 5.0678 E+04        |
| 18  | -0.0170           | -0.0241            | 3.4      | 0.0070               | 5.0678 E+04        |
| 19  | -0.0241           | -0.0311            | 3.4      | 0.0070               | 5.0678 E+04        |
| 20  | -0.0170           | -0.0240            | 3.4      | 0.0070               | 5.0678 E+04        |
| 21  | 0.0051            | 0.0030             | 1.8      | 0.0021               | 2.0776 E+04        |
| 22  | -0.0453           | -0.0537            | 3.7      | 0.0084               | 6.1982 E+04        |
| 23  | -0.0264           | -0.0335            | 3.4      | 0.0070               | 5.0678 E+04        |
| 24  | -0.0411           | -0.0418            | 1.1      | 0.0008               | 1.2485 E+04        |
| 25  | -0.0184           | -0.0192            | 1.1      | 0.0008               | 1.2485 E+04        |
| 26  | -0.0174           | -0.0182            | 1.1      | 0.0008               | 1.2485 E+04        |
| 27  | -0.0548           | -0.0663            | 4.3      | 0.0115               | 8.5107 E+04        |
| 28  | -0.0493           | -0.0603            | 4.2      | 0.0110               | 7.7133 E+04        |
| 29  | -0.0429           | -0.0537            | 4.2      | 0.0108               | 7.0245 E+04        |
| 30  | -0.0385           | -0.0509            | 4.5      | 0.0124               | 5.8152 E+04        |
| 31  | -0.0287           | -0.0343            | 3.0      | 0.0056               | 3.4060 E+04        |
| 32  | -0.0262           | -0.0318            | 3.0      | 0.0056               | 3.4060 E+04        |
| 33  | -0.0207           | -0.0215            | 1.1      | 0.0008               | 1.2485 E+04        |
| 34  | -0.0174           | -0.0181            | 1.1      | 0.0008               | 1.2485 E+04        |
| 35  | -0.0239           | -0.0261            | 1.9      | 0.0023               | 2.1575 E+04        |
| 36  | -0.0215           | -0.0269            | 3.0      | 0.0054               | 3.3261 E+04        |
| 37  | -0.0070           | -0.0091            | 1.8      | 0.0021               | 2.0776 E+04        |
| 38  | -0.0041           | -0.0062            | 1.8      | 0.0021               | 2.0776 E+04        |
| 39  | -0.0179           | -0.0186            | 1.1      | 0.0008               | 1.2485 E+04        |
| 40  | -0.0227           | -0.0295            | 3.3      | 0.0069               | 3.7556 E+04        |
| 41  | -0.0201           | -0.0269            | 3.3      | 0.0069               | 3.7556 E+04        |
| 42  | -0.0096           | -0.0119            | 1.9      | 0.0023               | 2.1725 E+04        |
| 43  | -0.0149           | -0.0157            | 1.1      | 0.0008               | 1.2485 E+04        |
| 44  | -0.0174           | -0.0181            | 1.1      | 0.0008               | 1.2485 E+04        |
| 45  | -0.0148           | -0.0156            | 1.1      | 0.0008               | 1.2485 E+04        |
| 46  | -0.0174           | -0.0181            | 1.1      | 0.0008               | 1.2485 E+04        |
| 47  | -0.0317           | -0.0444            | 4.5      | 0.0127               | 7.5898 E+04        |
| 48  | -0.0398           | -0.0482            | 3.7      | 0.0084               | 6.1982 E+04        |
| 49  | -0.0353           | -0.0452            | 4.0      | 0.0099               | 6.0042 E+04        |
| 50  | -0.0257           | -0.0327            | 3.4      | 0.0070               | 5.0678 E+04        |
| 51  | -0.0167           | -0.0238            | 3.4      | 0.0070               | 5.0678 E+04        |



PRESSURE LOSS DATA II

System name : 0207R 28-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 2 Of 2  
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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 67. (Continued)

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 52  | -0.0329           | -0.0336            | 1.1      | 0.0008               | 1.2485 E+04        |
| 53  | -0.0105           | -0.0113            | 1.1      | 0.0008               | 1.2485 E+04        |
| 54  | 0.0057            | 0.0036             | 1.8      | 0.0021               | 2.0776 E+04        |
| 55  | -0.0051           | -0.0081            | 2.2      | 0.0030               | 2.4971 E+04        |
| 56  | -0.0174           | -0.0181            | 1.1      | 0.0008               | 1.2485 E+04        |
| 57  | -0.0174           | -0.0181            | 1.1      | 0.0008               | 1.2485 E+04        |
| 58  | -0.0613           | -0.0746            | 4.6      | 0.0132               | 10.2433 E+04       |
| 59  | -0.0562           | -0.0677            | 4.3      | 0.0115               | 8.1085 E+04        |
| 60  | -0.0494           | -0.0609            | 4.3      | 0.0115               | 8.1085 E+04        |
| 61  | -0.0449           | -0.0564            | 4.3      | 0.0115               | 8.1085 E+04        |
| 62  | -0.0403           | -0.0518            | 4.3      | 0.0115               | 8.1085 E+04        |
| 63  | -0.0334           | -0.0449            | 4.3      | 0.0115               | 8.1085 E+04        |
| 64  | -0.0207           | -0.0277            | 3.4      | 0.0070               | 5.0678 E+04        |
| 65  | -0.0283           | -0.0353            | 3.4      | 0.0070               | 5.0678 E+04        |
| 66  | -0.0167           | -0.0238            | 3.4      | 0.0070               | 5.0678 E+04        |
| 67  | -0.0217           | -0.0287            | 3.4      | 0.0070               | 5.0678 E+04        |

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## SIZE DATA

System name : 0208I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 50.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----><br>Width Height | <----- Airflow -----><br>Width Height |
|-----|-------|-----------------|----------|-------------------------------------|---------------------------------------|
|     |       | L/s             | m/s      | mm mm                               | mm mm                                 |
| 1   | REC   | 1567.2          | 6.3      | 500.0                               | 500.0                                 |
| 2   | REC   | 1567.2          | 6.3      | 500.0                               | 500.0                                 |
| 3   | REC   | 1567.2          | 6.3      | 500.0                               | 500.0                                 |
| 4   | REC   | 1567.2          | 6.3      | 500.0                               | 500.0                                 |
| 5   | REC   | 1567.2          | 6.3      | 500.0                               | 500.0                                 |
| 6   | REC   | 1567.2          | 6.3      | 500.0                               | 500.0                                 |
| 7   | REC   | 1567.2          | 6.3      | 500.0                               | 500.0                                 |
| 8   | REC   | 1567.2          | 6.3      | 500.0                               | 500.0                                 |
| 9   | REC   | 1567.2          | 6.0      | 750.0                               | 350.0                                 |
| 10  | REC   | 1567.2          | 6.0      | 750.0                               | 350.0                                 |
| 11  | REC   | 1250.7          | 6.0      | 600.0                               | 350.0                                 |
| 12  | REC   | 1201.9          | 5.7      | 600.0                               | 350.0                                 |
| 13  | REC   | 887.5           | 5.4      | 550.0                               | 300.0                                 |
| 14  | REC   | 576.3           | 4.6      | 500.0                               | 250.0                                 |
| 15  | REC   | 211.0           | 4.2      | 250.0                               | 200.0                                 |
| 16  | REC   | 211.0           | 4.2      | 250.0                               | 200.0                                 |
| 17  | REC   | 211.0           | 4.2      | 250.0                               | 200.0                                 |
| 18  | REC   | 105.5           | 2.6      | 200.0                               | 200.0                                 |
| 19  | REC   | 105.5           | 2.6      | 200.0                               | 200.0                                 |
| 20  | REC   | 48.8            | 2.2      | 150.0                               | 150.0                                 |
| 21  | REC   | 48.8            | 2.2      | 150.0                               | 150.0                                 |
| 22  | REC   | 316.5           | 4.2      | 300.0                               | 250.0                                 |
| 23  | REC   | 211.0           | 4.2      | 250.0                               | 200.0                                 |
| 24  | REC   | 211.0           | 4.2      | 250.0                               | 200.0                                 |
| 25  | REC   | 105.5           | 2.6      | 200.0                               | 200.0                                 |
| 26  | REC   | 105.5           | 2.6      | 200.0                               | 200.0                                 |
| 27  | REC   | 105.5           | 2.6      | 200.0                               | 200.0                                 |
| 28  | REC   | 211.0           | 4.2      | 250.0                               | 200.0                                 |
| 29  | REC   | 211.0           | 4.2      | 250.0                               | 200.0                                 |
| 30  | REC   | 105.5           | 2.6      | 200.0                               | 200.0                                 |
| 31  | REC   | 105.5           | 2.6      | 200.0                               | 200.0                                 |
| 32  | REC   | 100.2           | 2.5      | 200.0                               | 200.0                                 |
| 33  | REC   | 100.2           | 2.5      | 200.0                               | 200.0                                 |
| 34  | REC   | 211.0           | 4.2      | 250.0                               | 200.0                                 |
| 35  | REC   | 211.0           | 4.2      | 250.0                               | 200.0                                 |
| 36  | REC   | 105.5           | 2.6      | 200.0                               | 200.0                                 |
| 37  | REC   | 105.5           | 2.6      | 200.0                               | 200.0                                 |
| 38  | REC   | 103.4           | 3.4      | 200.0                               | 150.0                                 |
| 39  | REC   | 54.6            | 2.4      | 150.0                               | 150.0                                 |
| 40  | REC   | 54.6            | 2.4      | 150.0                               | 150.0                                 |
| 41  | REC   | 54.6            | 2.4      | 150.0                               | 150.0                                 |
| 42  | REC   | 48.8            | 2.2      | 150.0                               | 150.0                                 |
| 43  | REC   | 48.8            | 2.2      | 150.0                               | 150.0                                 |
| 44  | REC   | 48.8            | 2.2      | 150.0                               | 150.0                                 |
| 45  | REC   | 316.5           | 4.2      | 300.0                               | 250.0                                 |
| 46  | REC   | 211.0           | 4.2      | 250.0                               | 200.0                                 |
| 47  | REC   | 211.0           | 4.2      | 250.0                               | 200.0                                 |
| 48  | REC   | 105.5           | 2.6      | 200.0                               | 200.0                                 |
| 49  | REC   | 105.5           | 2.6      | 200.0                               | 200.0                                 |

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SIZE DATA

System name : 0208I 28-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 2 Of 2  
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1. SIZE DATA FOR SECTIONS 1 THROUGH 50. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----><br>Width | <-----><br>Height | <----- Airflow -----><br>Width | <-----><br>Height |
|-----|-------|-----------------|----------|------------------------------|-------------------|--------------------------------|-------------------|
|     |       | L/s             | m/s      | mm                           | mm                | mm                             | mm                |
| 50  | REC   | 105.5           | 2.6      | 200.0                        | 200.0             | 200.0                          | 200.0             |

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## PRESSURE LOSS DATA

System name : 0208I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 50.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0007        |
| 2   | 0.0058      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0073        |
| 3   | 0.0058      | 0.0000                    | 0.0000                | 0.0066       | 0.0000        | 0.0000          | 0.0124        |
| 4   | 0.0058      | 0.0000                    | 0.0000                | 0.0058       | 0.0000        | 0.0000          | 0.0116        |
| 5   | 0.0058      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0086        |
| 6   | 0.0058      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0064        |
| 7   | 0.0058      | 0.0000                    | 0.0000                | 0.0062       | 0.0000        | 0.0000          | 0.0120        |
| 8   | 0.0058      | 0.0000                    | 0.0000                | 0.0009       | 0.0180        | 0.0000          | 0.0247        |
| 9   | 0.0006      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0015        |
| 10  | 0.0064      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0072        |
| 11  | -0.0002     | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0016        |
| 12  | -0.0002     | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0023        |
| 13  | 0.0001      | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0013          | 0.0041        |
| 14  | 0.0003      | 0.0000                    | 0.0000                | 0.0045       | 0.0000        | 0.0079          | 0.0127        |
| 15  | 0.0001      | 0.0000                    | 0.0000                | 0.0084       | 0.0000        | 0.0029          | 0.0115        |
| 16  | 0.0035      | 0.0000                    | 0.0000                | 0.0071       | 0.0000        | 0.0000          | 0.0106        |
| 17  | 0.0035      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0048        |
| 18  | 0.0030      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 19  | 0.0030      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 20  | 0.0191      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0318          | 0.0512        |
| 21  | 0.0010      | 0.0030                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0044        |
| 22  | 0.0150      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0166        |
| 23  | 0.0007      | 0.0000                    | 0.0000                | 0.0050       | 0.0000        | 0.0000          | 0.0057        |
| 24  | 0.0035      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0045        |
| 25  | 0.0030      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 26  | 0.0030      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 27  | 0.0038      | 0.0250                    | 0.0000                | 0.0005       | 0.0000        | 0.0097          | 0.0390        |
| 28  | 0.0274      | 0.0000                    | 0.0000                | 0.0071       | 0.0000        | 0.0000          | 0.0344        |
| 29  | 0.0035      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0051        |
| 30  | 0.0030      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 31  | 0.0030      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 32  | 0.0227      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0210          | 0.0447        |
| 33  | 0.0013      | 0.0220                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0237        |
| 34  | 0.0320      | 0.0000                    | 0.0000                | 0.0071       | 0.0000        | 0.0000          | 0.0391        |
| 35  | 0.0035      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0045        |
| 36  | 0.0030      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 37  | 0.0030      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 38  | 0.0354      | 0.0000                    | 0.0000                | 0.0100       | 0.0000        | 0.0007          | 0.0461        |
| 39  | 0.0004      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0008        |
| 40  | 0.0013      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0019        |
| 41  | 0.0013      | 0.0220                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0237        |
| 42  | 0.0030      | 0.0030                    | 0.0000                | 0.0003       | 0.0000        | 0.0200          | 0.0263        |
| 43  | 0.0120      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0579          | 0.0703        |
| 44  | 0.0010      | 0.0030                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0045        |
| 45  | 0.0081      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0273          | 0.0370        |
| 46  | 0.0007      | 0.0000                    | 0.0000                | 0.0051       | 0.0000        | 0.0000          | 0.0057        |
| 47  | 0.0035      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0048        |
| 48  | 0.0030      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 49  | 0.0030      | 0.0250                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0288        |
| 50  | 0.0038      | 0.0250                    | 0.0000                | 0.0005       | 0.0000        | 0.0101          | 0.0394        |



## C-VALUE DATA

System name : 0208I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 50.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0303 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2415  | 0.0000            | 0.0000        | 0.0606 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2415  | 0.0000            | 0.0000        | 0.2729 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2415  | 0.0000            | 0.0000        | 0.2391 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2415  | 0.0000            | 0.0000        | 0.1149 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2415  | 0.0000            | 0.0000        | 0.0253 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2415  | 0.0000            | 0.0000        | 0.2574 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2415  | 0.0000            | 0.0000        | 0.0369 | 0.7456 | 0.0000  |
| 9   | 8   | 0.0229  | 0.0000            | 0.0000        | 0.0426 | 0.0000 | 0.0000  |
| 10  | 9   | 0.2906  | 0.0000            | 0.0000        | 0.0361 | 0.0000 | 0.0000  |
| 11  | 10  | -0.0089 | 0.0000            | 0.0000        | 0.0828 | 0.0000 | 0.0000  |
| 12  | 11  | -0.0100 | 0.0000            | 0.0000        | 0.1254 | 0.0000 | 0.0000  |
| 13  | 12  | 0.0060  | 0.0000            | 0.0000        | 0.1498 | 0.0000 | 0.0738  |
| 14  | 13  | 0.0143  | 0.0000            | 0.0000        | 0.3467 | 0.0000 | 0.6086  |
| 15  | 14  | 0.0085  | 0.0000            | 0.0000        | 0.7698 | 0.0000 | 0.2683  |
| 16  | 15  | 0.3204  | 0.0000            | 0.0000        | 0.6473 | 0.0000 | 0.0000  |
| 17  | 16  | 0.3204  | 0.0000            | 0.0000        | 0.1141 | 0.0000 | 0.0000  |
| 18  | 17  | 0.2700  | 5.8503            | 0.0000        | 0.2031 | 0.0000 | 0.0000  |
| 19  | 17  | 0.2700  | 5.8503            | 0.0000        | 0.2031 | 0.0000 | 0.0000  |
| 20  | 14  | 1.4600  | 0.0000            | 0.0000        | 0.1260 | 0.0000 | 11.0034 |
| 21  | 20  | 0.3598  | 1.0382            | 0.0000        | 0.1256 | 0.0000 | 0.0000  |
| 22  | 14  | 1.1492  | 0.0000            | 0.0000        | 0.1478 | 0.0000 | 0.0000  |
| 23  | 22  | 0.0618  | 0.0000            | 0.0000        | 0.4567 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3204  | 0.0000            | 0.0000        | 0.0919 | 0.0000 | 0.0000  |
| 25  | 24  | 0.2700  | 5.8503            | 0.0000        | 0.2031 | 0.0000 | 0.0000  |
| 26  | 24  | 0.2700  | 5.8503            | 0.0000        | 0.2031 | 0.0000 | 0.0000  |
| 27  | 22  | 0.3493  | 5.8503            | 0.0000        | 0.1209 | 0.0000 | 2.2621  |
| 28  | 13  | 1.5396  | 0.0000            | 0.0000        | 0.6473 | 0.0000 | 0.0000  |
| 29  | 28  | 0.3204  | 0.0000            | 0.0000        | 0.1449 | 0.0000 | 0.0000  |
| 30  | 29  | 0.2700  | 5.8503            | 0.0000        | 0.2031 | 0.0000 | 0.0000  |
| 31  | 29  | 0.2700  | 5.8503            | 0.0000        | 0.2031 | 0.0000 | 0.0000  |
| 32  | 13  | 1.2761  | 0.0000            | 0.0000        | 0.2693 | 0.0000 | 5.4365  |
| 33  | 32  | 0.3317  | 5.7072            | 0.0000        | 0.1042 | 0.0000 | 0.0000  |
| 34  | 12  | 1.5908  | 0.0000            | 0.0000        | 0.6473 | 0.0000 | 0.0000  |
| 35  | 34  | 0.3204  | 0.0000            | 0.0000        | 0.0943 | 0.0000 | 0.0000  |
| 36  | 35  | 0.2700  | 5.8503            | 0.0000        | 0.2031 | 0.0000 | 0.0000  |
| 37  | 35  | 0.2700  | 5.8503            | 0.0000        | 0.2031 | 0.0000 | 0.0000  |
| 38  | 12  | 1.7571  | 0.0000            | 0.0000        | 1.3729 | 0.0000 | 0.0993  |
| 39  | 38  | 0.0564  | 0.0000            | 0.0000        | 0.0959 | 0.0000 | 0.0000  |
| 40  | 39  | 0.3519  | 0.0000            | 0.0000        | 0.1780 | 0.0000 | 0.0000  |
| 41  | 40  | 0.3519  | 6.0817            | 0.0000        | 0.1108 | 0.0000 | 0.0000  |
| 42  | 38  | 0.4116  | 1.0382            | 0.0000        | 0.1150 | 0.0000 | 6.9255  |
| 43  | 11  | 0.5500  | 0.0000            | 0.0000        | 0.1260 | 0.0000 | 20.0468 |
| 44  | 43  | 0.3598  | 1.0382            | 0.0000        | 0.1513 | 0.0000 | 0.0000  |
| 45  | 10  | 0.3709  | 0.0000            | 0.0000        | 0.1438 | 0.0000 | 2.4970  |
| 46  | 45  | 0.0618  | 0.0000            | 0.0000        | 0.4619 | 0.0000 | 0.0000  |
| 47  | 46  | 0.3204  | 0.0000            | 0.0000        | 0.1186 | 0.0000 | 0.0000  |
| 48  | 47  | 0.2700  | 5.8503            | 0.0000        | 0.2031 | 0.0000 | 0.0000  |
| 49  | 47  | 0.2700  | 5.8503            | 0.0000        | 0.2031 | 0.0000 | 0.0000  |
| 50  | 45  | 0.3493  | 5.8503            | 0.0000        | 0.1118 | 0.0000 | 2.3529  |

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## FAN DATA PRINTOUT

System name : 0208I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 1567.2 L/s |
| Fan Static Pressure .....                     | :           | 0.1074 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.1689 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.1689 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.1689 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.1074 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.1689 kPa |
| Total Downstream Losses ..... | : | 0.1689 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0208I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 50.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.1689            | 0.1447             | 6.3      | 0.0241               | 23.4805 E+04       |
| 2   | 0.1681            | 0.1440             | 6.3      | 0.0241               | 23.4805 E+04       |
| 3   | 0.1608            | 0.1367             | 6.3      | 0.0241               | 23.4805 E+04       |
| 4   | 0.1484            | 0.1243             | 6.3      | 0.0241               | 23.4805 E+04       |
| 5   | 0.1368            | 0.1127             | 6.3      | 0.0241               | 23.4805 E+04       |
| 6   | 0.1282            | 0.1041             | 6.3      | 0.0241               | 23.4805 E+04       |
| 7   | 0.1218            | 0.0976             | 6.3      | 0.0241               | 23.4805 E+04       |
| 8   | 0.1097            | 0.0856             | 6.3      | 0.0241               | 23.4805 E+04       |
| 9   | 0.0850            | 0.0631             | 6.0      | 0.0219               | 22.5119 E+04       |
| 10  | 0.0835            | 0.0616             | 6.0      | 0.0219               | 22.5119 E+04       |
| 11  | 0.0764            | 0.0546             | 6.0      | 0.0218               | 20.2628 E+04       |
| 12  | 0.0748            | 0.0546             | 5.7      | 0.0201               | 19.4722 E+04       |
| 13  | 0.0711            | 0.0534             | 5.4      | 0.0178               | 16.1833 E+04       |
| 14  | 0.0604            | 0.0474             | 4.6      | 0.0131               | 12.0324 E+04       |
| 15  | 0.0527            | 0.0418             | 4.2      | 0.0109               | 7.0579 E+04        |
| 16  | 0.0442            | 0.0332             | 4.2      | 0.0109               | 7.0579 E+04        |
| 17  | 0.0336            | 0.0226             | 4.2      | 0.0109               | 7.0579 E+04        |
| 18  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9516 E+04        |
| 19  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9516 E+04        |
| 20  | 0.0238            | 0.0209             | 2.2      | 0.0029               | 2.4371 E+04        |
| 21  | 0.0044            | 0.0015             | 2.2      | 0.0029               | 2.4371 E+04        |
| 22  | 0.0556            | 0.0447             | 4.2      | 0.0109               | 8.6486 E+04        |
| 23  | 0.0390            | 0.0281             | 4.2      | 0.0109               | 7.0579 E+04        |
| 24  | 0.0333            | 0.0224             | 4.2      | 0.0109               | 7.0579 E+04        |
| 25  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9516 E+04        |
| 26  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9516 E+04        |
| 27  | 0.0293            | 0.0251             | 2.6      | 0.0043               | 3.9516 E+04        |
| 28  | 0.0684            | 0.0574             | 4.2      | 0.0109               | 7.0579 E+04        |
| 29  | 0.0339            | 0.0230             | 4.2      | 0.0109               | 7.0579 E+04        |
| 30  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9516 E+04        |
| 31  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9516 E+04        |
| 32  | 0.0474            | 0.0435             | 2.5      | 0.0039               | 3.7531 E+04        |
| 33  | 0.0237            | 0.0198             | 2.5      | 0.0039               | 3.7531 E+04        |
| 34  | 0.0724            | 0.0615             | 4.2      | 0.0109               | 7.0579 E+04        |
| 35  | 0.0334            | 0.0224             | 4.2      | 0.0109               | 7.0579 E+04        |
| 36  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9516 E+04        |
| 37  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9516 E+04        |
| 38  | 0.0717            | 0.0644             | 3.4      | 0.0073               | 4.4606 E+04        |
| 39  | 0.0263            | 0.0227             | 2.4      | 0.0036               | 2.7268 E+04        |
| 40  | 0.0256            | 0.0220             | 2.4      | 0.0036               | 2.7268 E+04        |
| 41  | 0.0237            | 0.0201             | 2.4      | 0.0036               | 2.7268 E+04        |
| 42  | 0.0063            | 0.0034             | 2.2      | 0.0029               | 2.4371 E+04        |
| 43  | 0.0168            | 0.0139             | 2.2      | 0.0029               | 2.4371 E+04        |
| 44  | 0.0045            | 0.0016             | 2.2      | 0.0029               | 2.4371 E+04        |
| 45  | 0.0490            | 0.0381             | 4.2      | 0.0109               | 8.6486 E+04        |
| 46  | 0.0394            | 0.0284             | 4.2      | 0.0109               | 7.0579 E+04        |
| 47  | 0.0336            | 0.0227             | 4.2      | 0.0109               | 7.0579 E+04        |
| 48  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9516 E+04        |
| 49  | 0.0288            | 0.0245             | 2.6      | 0.0043               | 3.9516 E+04        |
| 50  | 0.0293            | 0.0250             | 2.6      | 0.0043               | 3.9516 E+04        |

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## SIZE DATA

System name : 0208R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 55.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----><br>Width Height | <----- Airflow -----><br>Width Height |
|-----|-------|-----------------|----------|-------------------------------------|---------------------------------------|
|     |       | L/s             | m/s      | mm mm                               | mm mm                                 |
| 1   | REC   | 1410.9          | 5.6      | 500.0                               | 500.0                                 |
| 2   | REC   | 1410.9          | 5.6      | 500.0                               | 500.0                                 |
| 3   | REC   | 1410.9          | 5.6      | 500.0                               | 500.0                                 |
| 4   | REC   | 1410.9          | 5.6      | 500.0                               | 500.0                                 |
| 5   | REC   | 1410.9          | 5.6      | 500.0                               | 500.0                                 |
| 6   | REC   | 1410.9          | 5.6      | 500.0                               | 500.0                                 |
| 7   | REC   | 1410.9          | 5.6      | 500.0                               | 500.0                                 |
| 8   | REC   | 1410.9          | 5.6      | 500.0                               | 500.0                                 |
| 9   | REC   | 293.0           | 4.7      | 250.0                               | 250.0                                 |
| 10  | REC   | 293.0           | 4.7      | 250.0                               | 250.0                                 |
| 11  | REC   | 268.0           | 4.3      | 250.0                               | 250.0                                 |
| 12  | REC   | 134.0           | 3.4      | 200.0                               | 200.0                                 |
| 13  | REC   | 134.0           | 3.4      | 200.0                               | 200.0                                 |
| 14  | REC   | 134.0           | 3.4      | 200.0                               | 200.0                                 |
| 15  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 16  | REC   | 1117.9          | 6.2      | 450.0                               | 400.0                                 |
| 17  | REC   | 933.9           | 5.8      | 400.0                               | 400.0                                 |
| 18  | REC   | 708.2           | 5.1      | 400.0                               | 350.0                                 |
| 19  | REC   | 488.1           | 4.9      | 400.0                               | 250.0                                 |
| 20  | REC   | 304.1           | 4.3      | 350.0                               | 200.0                                 |
| 21  | REC   | 268.0           | 4.3      | 250.0                               | 250.0                                 |
| 22  | REC   | 268.0           | 4.3      | 250.0                               | 250.0                                 |
| 23  | REC   | 134.0           | 3.4      | 200.0                               | 200.0                                 |
| 24  | REC   | 134.0           | 3.4      | 200.0                               | 200.0                                 |
| 25  | REC   | 134.0           | 3.4      | 200.0                               | 200.0                                 |
| 26  | REC   | 36.1            | 1.6      | 150.0                               | 150.0                                 |
| 27  | REC   | 184.0           | 3.7      | 250.0                               | 200.0                                 |
| 28  | REC   | 134.0           | 3.4      | 200.0                               | 200.0                                 |
| 29  | REC   | 50.0            | 2.2      | 150.0                               | 150.0                                 |
| 30  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 31  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 32  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 33  | REC   | 220.1           | 4.4      | 250.0                               | 200.0                                 |
| 34  | REC   | 184.0           | 4.6      | 200.0                               | 200.0                                 |
| 35  | REC   | 134.0           | 3.4      | 200.0                               | 200.0                                 |
| 36  | REC   | 134.0           | 3.4      | 200.0                               | 200.0                                 |
| 37  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 38  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 39  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 40  | REC   | 36.1            | 1.6      | 150.0                               | 150.0                                 |
| 41  | REC   | 50.0            | 2.2      | 150.0                               | 150.0                                 |
| 42  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 43  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 44  | REC   | 175.7           | 2.8      | 250.0                               | 250.0                                 |
| 45  | REC   | 139.6           | 3.5      | 200.0                               | 200.0                                 |
| 46  | REC   | 65.4            | 2.9      | 150.0                               | 150.0                                 |
| 47  | REC   | 65.4            | 2.9      | 150.0                               | 150.0                                 |
| 48  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |
| 49  | REC   | 25.0            | 1.1      | 150.0                               | 150.0                                 |

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SIZE DATA

System name : 0208R 28-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 2 Of 2  
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1. SIZE DATA FOR SECTIONS 1 THROUGH 55. (Continued)

| Sec   | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-------|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|       |       |                 |          | Width               | Height | Width                 | Height |
|       |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 50    | REC   | 40.4            | 1.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 51    | REC   | 74.2            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 52    | REC   | 74.2            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 53    | REC   | 36.1            | 1.6      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 54    | REC   | 134.0           | 3.4      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 55    | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| ***** |       |                 |          |                     |        |                       |        |



## PRESSURE LOSS DATA

System name : 0208R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 55.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0006        |
| 2   | 0.0047      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0059        |
| 3   | 0.0047      | 0.0000                    | 0.0000                | 0.0054       | 0.0000        | 0.0000          | 0.0101        |
| 4   | 0.0047      | 0.0000                    | 0.0000                | 0.0047       | 0.0000        | 0.0000          | 0.0095        |
| 5   | 0.0047      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0070        |
| 6   | 0.0047      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0052        |
| 7   | 0.0047      | 0.0000                    | 0.0000                | 0.0051       | 0.0000        | 0.0000          | 0.0098        |
| 8   | 0.0047      | 0.0000                    | 0.0000                | 0.0006       | 0.0150        | 0.0000          | 0.0204        |
| 9   | 0.0045      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0543          | 0.0612        |
| 10  | 0.0038      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0071        |
| 11  | 0.0018      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0037        |
| 12  | 0.0060      | 0.0000                    | 0.0000                | 0.0051       | 0.0000        | 0.0000          | 0.0111        |
| 13  | 0.0022      | 0.0140                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0171        |
| 14  | 0.0062      | 0.0140                    | 0.0000                | 0.0009       | 0.0000        | 0.0070          | 0.0281        |
| 15  | -0.0112     | 0.0400                    | 0.0000                | 0.0001       | 0.0000        | 0.0029          | 0.0318        |
| 16  | 0.0031      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0053        |
| 17  | 0.0118      | 0.0000                    | 0.0000                | 0.0042       | 0.0000        | 0.0000          | 0.0161        |
| 18  | 0.0131      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0146        |
| 19  | 0.0061      | 0.0000                    | 0.0000                | 0.0092       | 0.0000        | 0.0000          | 0.0153        |
| 20  | 0.0065      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.0086        |
| 21  | 0.0021      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0047        |
| 22  | 0.0033      | 0.0000                    | 0.0000                | 0.0036       | 0.0000        | 0.0000          | 0.0069        |
| 23  | 0.0060      | 0.0000                    | 0.0000                | 0.0060       | 0.0000        | 0.0000          | 0.0119        |
| 24  | 0.0022      | 0.0140                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0167        |
| 25  | 0.0062      | 0.0140                    | 0.0000                | 0.0006       | 0.0000        | 0.0079          | 0.0287        |
| 26  | -0.0093     | 0.0030                    | 0.0000                | 0.0002       | 0.0000        | 0.0463          | 0.0403        |
| 27  | 0.0021      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0056          | 0.0099        |
| 28  | 0.0029      | 0.0140                    | 0.0000                | 0.0069       | 0.0000        | 0.0152          | 0.0390        |
| 29  | -0.0034     | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | -0.0032       |
| 30  | 0.0016      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0018        |
| 31  | 0.0003      | 0.0400                    | 0.0000                | 0.0000       | 0.0000        | 0.0000          | 0.0404        |
| 32  | 0.0017      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0234          | 0.0421        |
| 33  | -0.0037     | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0202          | 0.0172        |
| 34  | 0.0027      | 0.0000                    | 0.0000                | 0.0032       | 0.0000        | 0.0000          | 0.0059        |
| 35  | 0.0088      | 0.0000                    | 0.0000                | 0.0067       | 0.0000        | 0.0089          | 0.0243        |
| 36  | 0.0022      | 0.0140                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0167        |
| 37  | 0.0008      | 0.0400                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0410        |
| 38  | 0.0008      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0227          | 0.0236        |
| 39  | 0.0003      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 40  | -0.0087     | 0.0030                    | 0.0000                | 0.0002       | 0.0000        | 0.0525          | 0.0470        |
| 41  | -0.0117     | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0718          | 0.0612        |
| 42  | 0.0002      | 0.0170                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0176        |
| 43  | 0.0002      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0003          | 0.0176        |
| 44  | 0.0062      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0318          | 0.0394        |
| 45  | 0.0013      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0032        |
| 46  | 0.0041      | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0000          | 0.0075        |
| 47  | 0.0018      | 0.0000                    | 0.0000                | 0.0039       | 0.0000        | 0.0000          | 0.0057        |
| 48  | 0.0030      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0025          | 0.0056        |
| 49  | 0.0003      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 50  | 0.0058      | 0.0170                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0231        |



PRESSURE LOSS DATA

System name : 0208R 28-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 2 Of 2  
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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 55. (Continued)

| Sec   | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-------|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|       | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 51    | 0.0052      | 0.0000                    | 0.0000                | 0.0041       | 0.0000        | 0.0069          | 0.0163        |
| 52    | 0.0022      | 0.0170                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0199        |
| 53    | -0.0032     | 0.0030                    | 0.0000                | 0.0001       | 0.0000        | 0.0395          | 0.0394        |
| 54    | 0.0025      | 0.0140                    | 0.0000                | 0.0090       | 0.0000        | 0.0694          | 0.0949        |
| 55    | -0.0144     | 0.0170                    | 0.0000                | 0.0007       | 0.0000        | 0.0915          | 0.0949        |
| ***** |             |                           |                       |              |               |                 |               |



## C-VALUE DATA

System name : 0208R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 55.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0307 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2415  | 0.0000            | 0.0000        | 0.0614 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2415  | 0.0000            | 0.0000        | 0.2767 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2415  | 0.0000            | 0.0000        | 0.2424 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2415  | 0.0000            | 0.0000        | 0.1165 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2415  | 0.0000            | 0.0000        | 0.0257 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2415  | 0.0000            | 0.0000        | 0.2610 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2415  | 0.0000            | 0.0000        | 0.0328 | 0.7667 | 0.0000  |
| 9   | 8   | 0.2300  | 0.0000            | 0.0000        | 0.1795 | 0.0000 | 4.0216  |
| 10  | 9   | 0.2833  | 0.0000            | 0.0000        | 0.2411 | 0.0000 | 0.0000  |
| 11  | 10  | 0.1365  | 0.0000            | 0.0000        | 0.1640 | 0.0000 | 0.0000  |
| 12  | 11  | 0.5300  | 0.0000            | 0.0000        | 0.7391 | 0.0000 | 0.0000  |
| 13  | 12  | 0.3169  | 2.0308            | 0.0000        | 0.1276 | 0.0000 | 0.0000  |
| 14  | 11  | 0.5500  | 2.0308            | 0.0000        | 0.1349 | 0.0000 | 1.0160  |
| 15  | 10  | -0.8300 | 52.7429           | 0.0000        | 0.1473 | 0.0000 | 3.8700  |
| 16  | 8   | 0.1596  | 0.0000            | 0.0000        | 0.0905 | 0.0000 | 0.0000  |
| 17  | 16  | 0.4998  | 0.0000            | 0.0000        | 0.2019 | 0.0000 | 0.0000  |
| 18  | 17  | 0.6267  | 0.0000            | 0.0000        | 0.0961 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3886  | 0.0000            | 0.0000        | 0.6274 | 0.0000 | 0.0000  |
| 20  | 19  | 0.4416  | 0.0000            | 0.0000        | 0.1865 | 0.0000 | 0.0000  |
| 21  | 20  | 0.1806  | 0.0000            | 0.0000        | 0.2320 | 0.0000 | 0.0000  |
| 22  | 21  | 0.2895  | 0.0000            | 0.0000        | 0.3184 | 0.0000 | 0.0000  |
| 23  | 22  | 0.5300  | 0.0000            | 0.0000        | 0.8640 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3169  | 2.0308            | 0.0000        | 0.0800 | 0.0000 | 0.0000  |
| 25  | 22  | 0.5500  | 2.0308            | 0.0000        | 0.0800 | 0.0000 | 1.1481  |
| 26  | 20  | -0.8019 | 1.8971            | 0.0000        | 0.1320 | 0.0000 | 29.3092 |
| 27  | 19  | 0.1464  | 0.0000            | 0.0000        | 0.2621 | 0.0000 | 0.6736  |
| 28  | 27  | 0.3489  | 2.0308            | 0.0000        | 0.9982 | 0.0000 | 2.2010  |
| 29  | 27  | -0.4074 | 0.0000            | 0.0000        | 0.0771 | 0.0000 | 0.0000  |
| 30  | 29  | 0.5300  | 0.0000            | 0.0000        | 0.1995 | 0.0000 | 0.0000  |
| 31  | 30  | 0.4080  | 52.7429           | 0.0000        | 0.0585 | 0.0000 | 0.0000  |
| 32  | 29  | 0.5500  | 22.4158           | 0.0000        | 0.0917 | 0.0000 | 30.8215 |
| 33  | 18  | -0.2374 | 0.0000            | 0.0000        | 0.0658 | 0.0000 | 1.6930  |
| 34  | 33  | 0.2304  | 0.0000            | 0.0000        | 0.2447 | 0.0000 | 0.0000  |
| 35  | 34  | 0.6748  | 0.0000            | 0.0000        | 0.9658 | 0.0000 | 1.2911  |
| 36  | 35  | 0.3169  | 2.0308            | 0.0000        | 0.0772 | 0.0000 | 0.0000  |
| 37  | 34  | 0.0638  | 52.7429           | 0.0000        | 0.2877 | 0.0000 | 0.0000  |
| 38  | 34  | 0.0638  | 0.0000            | 0.0000        | 0.1406 | 0.0000 | 29.9161 |
| 39  | 38  | 0.4080  | 22.4158           | 0.0000        | 0.1502 | 0.0000 | 0.0000  |
| 40  | 33  | -0.7340 | 1.8971            | 0.0000        | 0.1008 | 0.0000 | 33.2302 |
| 41  | 17  | -0.5609 | 0.0000            | 0.0000        | 0.3965 | 0.0000 | 23.6529 |
| 42  | 41  | 0.0700  | 22.4158           | 0.0000        | 0.4907 | 0.0000 | 0.0000  |
| 43  | 41  | 0.0700  | 22.4158           | 0.0000        | 0.1265 | 0.0000 | 0.3642  |
| 44  | 17  | 0.2977  | 0.0000            | 0.0000        | 0.2924 | 0.0000 | 6.5428  |
| 45  | 44  | 0.2760  | 0.0000            | 0.0000        | 0.2432 | 0.0000 | 0.0000  |
| 46  | 45  | 0.5426  | 0.0000            | 0.0000        | 0.6563 | 0.0000 | 0.0000  |
| 47  | 46  | 0.3399  | 0.0000            | 0.0000        | 0.7604 | 0.0000 | 0.0000  |
| 48  | 47  | 0.5735  | 0.0000            | 0.0000        | 0.1877 | 0.0000 | 3.3058  |
| 49  | 48  | 0.4080  | 22.4158           | 0.0000        | 0.1528 | 0.0000 | 0.0000  |
| 50  | 47  | 1.1134  | 8.5836            | 0.0000        | 0.1379 | 0.0000 | 0.0000  |
| 51  | 45  | 0.7013  | 0.0000            | 0.0000        | 0.6126 | 0.0000 | 1.0390  |
| 52  | 51  | 0.3325  | 2.5446            | 0.0000        | 0.1086 | 0.0000 | 0.0000  |
| 53  | 44  | -0.6592 | 1.8971            | 0.0000        | 0.0725 | 0.0000 | 24.9621 |



C-VALUE DATA

System name : 0208R 28-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 2 Of 2

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1. C-VALUE DATA FOR SECTIONS 1 THROUGH 55. (Continued)

```
-----
Sec   Frm      Fit      Equip      Equip      Fric      Other      Balance
      Terminal    Thru
-----
54    16        0.1047    2.0308    0.0000    1.3042    0.0000    10.0664
55    16       -0.6085    5.6039    0.0000    0.2434    0.0000    30.1785
*****
```



## FAN DATA PRINTOUT

System name : 0208R 28-02-20  
 Prepared by : G.O.C. 61017002.16  
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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 1410.9 L/s  |
| Fan Static Pressure .....                     | :           | 0.1073 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1687 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1687 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1687 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.2301 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.1687 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1687 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0208R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 55.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1687           | -0.1883            | 5.6      | 0.0196               | 21.1387 E+04       |
| 2   | -0.1681           | -0.1877            | 5.6      | 0.0196               | 21.1387 E+04       |
| 3   | -0.1622           | -0.1817            | 5.6      | 0.0196               | 21.1387 E+04       |
| 4   | -0.1520           | -0.1716            | 5.6      | 0.0196               | 21.1387 E+04       |
| 5   | -0.1426           | -0.1621            | 5.6      | 0.0196               | 21.1387 E+04       |
| 6   | -0.1356           | -0.1551            | 5.6      | 0.0196               | 21.1387 E+04       |
| 7   | -0.1303           | -0.1499            | 5.6      | 0.0196               | 21.1387 E+04       |
| 8   | -0.1205           | -0.1401            | 5.6      | 0.0196               | 21.1387 E+04       |
| 9   | -0.0458           | -0.0593            | 4.7      | 0.0135               | 8.7797 E+04        |
| 10  | -0.0389           | -0.0524            | 4.7      | 0.0135               | 8.7797 E+04        |
| 11  | -0.0318           | -0.0431            | 4.3      | 0.0113               | 8.0306 E+04        |
| 12  | -0.0281           | -0.0350            | 3.4      | 0.0069               | 5.0191 E+04        |
| 13  | -0.0171           | -0.0240            | 3.4      | 0.0069               | 5.0191 E+04        |
| 14  | -0.0211           | -0.0280            | 3.4      | 0.0069               | 5.0191 E+04        |
| 15  | -0.0289           | -0.0297            | 1.1      | 0.0008               | 1.2485 E+04        |
| 16  | -0.1001           | -0.1238            | 6.2      | 0.0237               | 19.7302 E+04       |
| 17  | -0.0949           | -0.1158            | 5.8      | 0.0209               | 17.4901 E+04       |
| 18  | -0.0788           | -0.0945            | 5.1      | 0.0157               | 14.1711 E+04       |
| 19  | -0.0642           | -0.0788            | 4.9      | 0.0146               | 11.4839 E+04       |
| 20  | -0.0489           | -0.0605            | 4.3      | 0.0116               | 8.5275 E+04        |
| 21  | -0.0403           | -0.0516            | 4.3      | 0.0113               | 8.0306 E+04        |
| 22  | -0.0355           | -0.0468            | 4.3      | 0.0113               | 8.0306 E+04        |
| 23  | -0.0287           | -0.0356            | 3.4      | 0.0069               | 5.0191 E+04        |
| 24  | -0.0167           | -0.0236            | 3.4      | 0.0069               | 5.0191 E+04        |
| 25  | -0.0208           | -0.0277            | 3.4      | 0.0069               | 5.0191 E+04        |
| 26  | 0.0061            | 0.0045             | 1.6      | 0.0016               | 1.8029 E+04        |
| 27  | -0.0433           | -0.0516            | 3.7      | 0.0083               | 6.1548 E+04        |
| 28  | -0.0238           | -0.0307            | 3.4      | 0.0069               | 5.0191 E+04        |
| 29  | -0.0390           | -0.0420            | 2.2      | 0.0030               | 2.4971 E+04        |
| 30  | -0.0421           | -0.0429            | 1.1      | 0.0008               | 1.2485 E+04        |
| 31  | -0.0404           | -0.0411            | 1.1      | 0.0008               | 1.2485 E+04        |
| 32  | -0.0187           | -0.0195            | 1.1      | 0.0008               | 1.2485 E+04        |
| 33  | -0.0440           | -0.0559            | 4.4      | 0.0119               | 7.3623 E+04        |
| 34  | -0.0470           | -0.0600            | 4.6      | 0.0130               | 6.8919 E+04        |
| 35  | -0.0321           | -0.0390            | 3.4      | 0.0069               | 5.0191 E+04        |
| 36  | -0.0167           | -0.0236            | 3.4      | 0.0069               | 5.0191 E+04        |
| 37  | -0.0410           | -0.0418            | 1.1      | 0.0008               | 1.2485 E+04        |
| 38  | -0.0184           | -0.0191            | 1.1      | 0.0008               | 1.2485 E+04        |
| 39  | -0.0174           | -0.0182            | 1.1      | 0.0008               | 1.2485 E+04        |
| 40  | 0.0056            | 0.0040             | 1.6      | 0.0016               | 1.8029 E+04        |
| 41  | -0.0070           | -0.0101            | 2.2      | 0.0030               | 2.4971 E+04        |
| 42  | -0.0176           | -0.0183            | 1.1      | 0.0008               | 1.2485 E+04        |
| 43  | -0.0173           | -0.0181            | 1.1      | 0.0008               | 1.2485 E+04        |
| 44  | -0.0470           | -0.0519            | 2.8      | 0.0049               | 5.2648 E+04        |
| 45  | -0.0394           | -0.0469            | 3.5      | 0.0075               | 5.2289 E+04        |
| 46  | -0.0362           | -0.0414            | 2.9      | 0.0052               | 3.2662 E+04        |
| 47  | -0.0288           | -0.0340            | 2.9      | 0.0052               | 3.2662 E+04        |
| 48  | -0.0205           | -0.0213            | 1.1      | 0.0008               | 1.2485 E+04        |
| 49  | -0.0174           | -0.0182            | 1.1      | 0.0008               | 1.2485 E+04        |
| 50  | -0.0231           | -0.0250            | 1.8      | 0.0020               | 2.0176 E+04        |
| 51  | -0.0293           | -0.0360            | 3.3      | 0.0067               | 3.7057 E+04        |



## PRESSURE LOSS DATA II

System name : 0208R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 55. (Continued)

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 52  | -0.0199           | -0.0266            | 3.3      | 0.0067               | 3.7057 E+04        |
| 53  | 0.0001            | -0.0015            | 1.6      | 0.0016               | 1.8029 E+04        |
| 54  | -0.0255           | -0.0324            | 3.4      | 0.0069               | 5.0191 E+04        |
| 55  | -0.0033           | -0.0064            | 2.2      | 0.0030               | 2.4971 E+04        |

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## SIZE DATA

System name : 0209I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 82.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1328.1          | 6.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 2   | REC   | 1328.1          | 6.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 3   | REC   | 1328.1          | 6.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 4   | REC   | 1328.1          | 6.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 5   | REC   | 1328.1          | 6.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 6   | REC   | 1328.1          | 6.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 7   | REC   | 1328.1          | 6.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 8   | REC   | 689.1           | 6.6      | 350.0               | 300.0  | 350.0                 | 300.0  |
| 9   | REC   | 108.3           | 2.7      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 10  | REC   | 54.2            | 1.4      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 11  | RND   | 54.2            | 2.7      | -----               | 160.0  | -----                 | 160.0  |
| 12  | REC   | 54.2            | 1.4      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 13  | RND   | 54.2            | 2.7      | -----               | 160.0  | -----                 | 160.0  |
| 14  | REC   | 580.8           | 5.5      | 350.0               | 300.0  | 350.0                 | 300.0  |
| 15  | REC   | 530.8           | 5.1      | 350.0               | 300.0  | 350.0                 | 300.0  |
| 16  | REC   | 450.8           | 4.3      | 350.0               | 300.0  | 350.0                 | 300.0  |
| 17  | REC   | 410.8           | 4.6      | 300.0               | 300.0  | 300.0                 | 300.0  |
| 18  | REC   | 333.3           | 4.4      | 250.0               | 300.0  | 250.0                 | 300.0  |
| 19  | REC   | 65.0            | 1.4      | 150.0               | 300.0  | 150.0                 | 300.0  |
| 20  | REC   | 40.0            | 0.9      | 150.0               | 300.0  | 150.0                 | 300.0  |
| 21  | REC   | 0.0             | 0.0      | 150.0               | 300.0  | 150.0                 | 300.0  |
| 22  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 23  | REC   | 25.0            | 0.6      | 150.0               | 300.0  | 150.0                 | 300.0  |
| 24  | REC   | 0.0             | 0.0      | 150.0               | 300.0  | 150.0                 | 300.0  |
| 25  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 26  | REC   | 268.3           | 4.3      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 27  | REC   | 200.0           | 4.0      | 200.0               | 250.0  | 200.0                 | 250.0  |
| 28  | REC   | 200.0           | 4.0      | 200.0               | 250.0  | 200.0                 | 250.0  |
| 29  | REC   | 120.0           | 3.2      | 150.0               | 250.0  | 150.0                 | 250.0  |
| 30  | REC   | 80.0            | 2.1      | 150.0               | 250.0  | 150.0                 | 250.0  |
| 31  | REC   | 40.0            | 1.1      | 150.0               | 250.0  | 150.0                 | 250.0  |
| 32  | REC   | 0.0             | 0.0      | 150.0               | 250.0  | 150.0                 | 250.0  |
| 33  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 34  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 35  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 36  | REC   | 80.0            | 2.1      | 150.0               | 250.0  | 150.0                 | 250.0  |
| 37  | REC   | 0.0             | 0.0      | 150.0               | 250.0  | 150.0                 | 250.0  |
| 38  | RND   | 80.0            | 4.0      | -----               | 160.0  | -----                 | 160.0  |
| 39  | RND   | 68.3            | 3.4      | -----               | 160.0  | -----                 | 160.0  |
| 40  | REC   | 77.5            | 2.6      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 41  | REC   | 0.0             | 0.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 42  | RND   | 37.5            | 3.1      | -----               | 125.0  | -----                 | 125.0  |
| 43  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 44  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 45  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 46  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 47  | RND   | 40.0            | 3.3      | -----               | 125.0  | -----                 | 125.0  |
| 48  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 49  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## SIZE DATA

System name : 0209I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 82. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 50  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 51  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 52  | REC   | 537.8           | 5.1      | 350.0               | 300.0  | 350.0                 | 300.0  |
| 53  | REC   | 502.8           | 4.8      | 350.0               | 300.0  | 350.0                 | 300.0  |
| 54  | REC   | 285.0           | 4.6      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 55  | REC   | 35.0            | 1.6      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 56  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 57  | RND   | 35.0            | 2.9      | -----               | 125.0  | -----                 | 125.0  |
| 58  | RND   | 250.0           | 5.1      | -----               | 250.0  | -----                 | 250.0  |
| 59  | REC   | 217.8           | 4.4      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 60  | REC   | 187.8           | 4.7      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 61  | REC   | 93.9            | 2.3      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 62  | REC   | 0.0             | 0.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 63  | RND   | 93.9            | 3.0      | -----               | 200.0  | -----                 | 200.0  |
| 64  | RND   | 93.9            | 3.0      | -----               | 200.0  | -----                 | 200.0  |
| 65  | REC   | 30.0            | 1.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 66  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 67  | RND   | 30.0            | 2.4      | -----               | 125.0  | -----                 | 125.0  |
| 68  | RND   | 35.0            | 2.9      | -----               | 125.0  | -----                 | 125.0  |
| 69  | REC   | 101.2           | 3.4      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 70  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 71  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 72  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 73  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 74  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 75  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 76  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 77  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 78  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 79  | REC   | 51.2            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 80  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 81  | RND   | 51.2            | 2.5      | -----               | 160.0  | -----                 | 160.0  |
| 82  | RND   | 51.2            | 2.5      | -----               | 160.0  | -----                 | 160.0  |

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## PRESSURE LOSS DATA

System name : 0209I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 82.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0009        |
| 2   | 0.0070      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0089        |
| 3   | 0.0070      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0150        |
| 4   | 0.0070      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0088        |
| 5   | 0.0070      | 0.0000                    | 0.0000                | 0.0070       | 0.0000        | 0.0000          | 0.0140        |
| 6   | 0.0070      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0089        |
| 7   | 0.0070      | 0.0000                    | 0.0000                | 0.0028       | 0.0370        | 0.0000          | 0.0468        |
| 8   | 0.0000      | 0.0000                    | 0.0000                | 0.0079       | 0.0350        | 0.0035          | 0.0465        |
| 9   | 0.0079      | 0.0000                    | 0.0000                | 0.0018       | 0.0150        | 0.0298          | 0.0545        |
| 10  | 0.0011      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0003          | 0.0018        |
| 11  | 0.0000      | 0.0200                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0208        |
| 12  | 0.0011      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0017        |
| 13  | 0.0000      | 0.0200                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0209        |
| 14  | 0.0066      | 0.0000                    | 0.0000                | 0.0051       | 0.0000        | 0.0000          | 0.0118        |
| 15  | -0.0002     | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0008        |
| 16  | 0.0002      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.0024        |
| 17  | 0.0000      | 0.0000                    | 0.0000                | 0.0046       | 0.0000        | 0.0000          | 0.0046        |
| 18  | -0.0002     | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0018        |
| 19  | 0.0023      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0484          | 0.0509        |
| 20  | -0.0000     | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0000        |
| 21  | 0.0002      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0045          | 0.0047        |
| 22  | 0.0007      | 0.0030                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0047        |
| 23  | 0.0005      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0004          | 0.0010        |
| 24  | 0.0001      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0036          | 0.0037        |
| 25  | 0.0003      | 0.0030                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0037        |
| 26  | 0.0070      | 0.0000                    | 0.0000                | 0.0068       | 0.0000        | 0.0000          | 0.0138        |
| 27  | 0.0001      | 0.0000                    | 0.0000                | 0.0052       | 0.0000        | 0.0000          | 0.0052        |
| 28  | 0.0028      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0059        |
| 29  | 0.0027      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0034        |
| 30  | 0.0003      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0007          | 0.0024        |
| 31  | 0.0003      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0023          | 0.0029        |
| 32  | 0.0003      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0217          | 0.0220        |
| 33  | 0.0010      | 0.0200                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0220        |
| 34  | 0.0039      | 0.0200                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0249        |
| 35  | 0.0063      | 0.0200                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0273        |
| 36  | 0.0027      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0022          | 0.0052        |
| 37  | 0.0011      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0243          | 0.0254        |
| 38  | 0.0039      | 0.0200                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0254        |
| 39  | 0.0104      | 0.0200                    | 0.0000                | 0.0030       | 0.0000        | 0.0085          | 0.0418        |
| 40  | 0.0051      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0234          | 0.0289        |
| 41  | 0.0016      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0269          | 0.0286        |
| 42  | 0.0067      | 0.0200                    | 0.0000                | 0.0018       | 0.0000        | 0.0001          | 0.0286        |
| 43  | 0.0070      | 0.0200                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0286        |
| 44  | 0.0102      | 0.0200                    | 0.0000                | 0.0010       | 0.0000        | 0.0308          | 0.0621        |
| 45  | 0.0308      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0270          | 0.0588        |
| 46  | 0.0014      | 0.0030                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0057        |
| 47  | 0.0308      | 0.0200                    | 0.0000                | 0.0010       | 0.0000        | 0.0126          | 0.0645        |
| 48  | 0.0103      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0296          | 0.0413        |
| 49  | 0.0003      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0028          | 0.0033        |
| 50  | 0.0000      | 0.0200                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0207        |



## PRESSURE LOSS DATA

System name : 0209I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 82. (Continued)

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 51  | 0.0029      | 0.0200                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0240        |
| 52  | 0.0320      | 0.0000                    | 0.0000                | 0.0047       | 0.0000        | 0.0000          | 0.0367        |
| 53  | 0.0001      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0018        |
| 54  | 0.0003      | 0.0000                    | 0.0000                | 0.0032       | 0.0000        | 0.0470          | 0.0506        |
| 55  | 0.0022      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0154          | 0.0197        |
| 56  | 0.0006      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0142          | 0.0148        |
| 57  | 0.0021      | 0.0120                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0148        |
| 58  | 0.0133      | 0.0200                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0345        |
| 59  | 0.0060      | 0.0000                    | 0.0000                | 0.0031       | 0.0410        | 0.0000          | 0.0500        |
| 60  | -0.0001     | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0000          | 0.0026        |
| 61  | 0.0014      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0064          | 0.0081        |
| 62  | 0.0014      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0230          | 0.0244        |
| 63  | 0.0037      | 0.0200                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0244        |
| 64  | 0.0118      | 0.0200                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0324        |
| 65  | 0.0058      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0037          | 0.0115        |
| 66  | 0.0004      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0231          | 0.0235        |
| 67  | 0.0015      | 0.0200                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0235        |
| 68  | 0.0136      | 0.0120                    | 0.0000                | 0.0008       | 0.0000        | 0.0605          | 0.0869        |
| 69  | 0.0460      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0441          | 0.0923        |
| 70  | 0.0004      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0015        |
| 71  | 0.0011      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0017        |
| 72  | 0.0011      | 0.0000                    | 0.0000                | 0.0013       | 0.0030        | 0.0000          | 0.0054        |
| 73  | 0.0008      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0010        |
| 74  | 0.0003      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0213          | 0.0216        |
| 75  | 0.0011      | 0.0200                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0216        |
| 76  | 0.0008      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0010        |
| 77  | 0.0003      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0214          | 0.0217        |
| 78  | 0.0011      | 0.0200                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0217        |
| 79  | 0.0030      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0014          | 0.0060        |
| 80  | 0.0013      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0240          | 0.0253        |
| 81  | 0.0033      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0038        |
| 82  | 0.0009      | 0.0200                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0215        |

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## C-VALUE DATA

System name : 0209I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 82.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0345 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2599  | 0.0000            | 0.0000        | 0.0689 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2599  | 0.0000            | 0.0000        | 0.2929 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2599  | 0.0000            | 0.0000        | 0.0645 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2599  | 0.0000            | 0.0000        | 0.2585 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2599  | 0.0000            | 0.0000        | 0.0697 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2599  | 0.0000            | 0.0000        | 0.1034 | 1.3659 | 0.0000  |
| 8   | 7   | 0.0012  | 0.0000            | 0.0000        | 0.2998 | 1.3227 | 0.1334  |
| 9   | 8   | 0.3000  | 0.0000            | 0.0000        | 0.4048 | 3.3289 | 6.6050  |
| 10  | 9   | 0.2500  | 0.0000            | 0.0000        | 0.3177 | 0.0000 | 0.2545  |
| 11  | 10  | 0.0000  | 4.4859            | 0.0000        | 0.1745 | 0.0000 | 0.0000  |
| 12  | 9   | 0.2500  | 0.0000            | 0.0000        | 0.4818 | 0.0000 | 0.0000  |
| 13  | 12  | 0.0000  | 4.4859            | 0.0000        | 0.1973 | 0.0000 | 0.0000  |
| 14  | 8   | 0.2500  | 0.0000            | 0.0000        | 0.2740 | 0.0000 | 0.0000  |
| 15  | 14  | -0.0100 | 0.0000            | 0.0000        | 0.0618 | 0.0000 | 0.0000  |
| 16  | 15  | 0.0151  | 0.0000            | 0.0000        | 0.1943 | 0.0000 | 0.0000  |
| 17  | 16  | 0.0000  | 0.0000            | 0.0000        | 0.3626 | 0.0000 | 0.0000  |
| 18  | 17  | -0.0128 | 0.0000            | 0.0000        | 0.1644 | 0.0000 | 0.0000  |
| 19  | 18  | 0.1928  | 0.0000            | 0.0000        | 0.1414 | 0.0000 | 37.7425 |
| 20  | 19  | -0.0146 | 0.0000            | 0.0000        | 0.1346 | 0.0000 | 0.0000  |
| 21  | 20  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 22  | 20  | 1.4000  | 0.4597            | 0.0000        | 0.1530 | 0.0000 | 0.0000  |
| 23  | 19  | 0.3838  | 0.0000            | 0.0000        | 0.8319 | 0.0000 | 2.0522  |
| 24  | 23  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 25  | 23  | 1.4000  | 1.1767            | 0.0000        | 0.1648 | 0.0000 | 0.0000  |
| 26  | 18  | 0.5757  | 0.0000            | 0.0000        | 0.6026 | 0.0000 | 0.0000  |
| 27  | 26  | 0.0068  | 0.0000            | 0.0000        | 0.5246 | 0.0000 | 0.0000  |
| 28  | 27  | 0.2865  | 0.0000            | 0.0000        | 0.3158 | 0.0000 | 0.0000  |
| 29  | 28  | 0.2750  | 0.0000            | 0.0000        | 0.1029 | 0.0000 | 0.0000  |
| 30  | 29  | 0.0467  | 0.0000            | 0.0000        | 0.4949 | 0.0000 | 0.2640  |
| 31  | 30  | 0.1000  | 0.0000            | 0.0000        | 0.5314 | 0.0000 | 3.2686  |
| 32  | 31  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 33  | 31  | 1.4000  | 3.0644            | 0.0000        | 0.1500 | 0.0000 | 0.0000  |
| 34  | 30  | 1.4000  | 3.0644            | 0.0000        | 0.1500 | 0.0000 | 0.0000  |
| 35  | 29  | 1.0062  | 3.0644            | 0.0000        | 0.1500 | 0.0000 | 0.0000  |
| 36  | 28  | 0.2750  | 0.0000            | 0.0000        | 0.1115 | 0.0000 | 0.7974  |
| 37  | 36  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 38  | 36  | 1.4000  | 2.0565            | 0.0000        | 0.1543 | 0.0000 | 0.0000  |
| 39  | 26  | 0.9165  | 2.8214            | 0.0000        | 0.4170 | 0.0000 | 1.1964  |
| 40  | 17  | 0.3986  | 0.0000            | 0.0000        | 0.1004 | 0.0000 | 5.6966  |
| 41  | 40  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 42  | 40  | 1.6406  | 3.4866            | 0.0000        | 0.3137 | 0.0000 | 0.0099  |
| 43  | 40  | 1.7183  | 3.0644            | 0.0000        | 0.2356 | 0.0000 | 0.0000  |
| 44  | 16  | 0.9037  | 3.0644            | 0.0000        | 0.1608 | 0.0000 | 4.7204  |
| 45  | 15  | 1.9650  | 0.0000            | 0.0000        | 0.1530 | 0.0000 | 4.1357  |
| 46  | 45  | 0.2200  | 0.4597            | 0.0000        | 0.1920 | 0.0000 | 0.0000  |
| 47  | 15  | 1.9650  | 3.0644            | 0.0000        | 0.1608 | 0.0000 | 1.9351  |
| 48  | 14  | 0.5500  | 0.0000            | 0.0000        | 0.4608 | 0.0000 | 9.7562  |
| 49  | 48  | 0.1000  | 0.0000            | 0.0000        | 0.1729 | 0.0000 | 3.7553  |
| 50  | 49  | 0.0000  | 7.8449            | 0.0000        | 0.2724 | 0.0000 | 0.0000  |
| 51  | 48  | 0.9667  | 7.8449            | 0.0000        | 0.4096 | 0.0000 | 0.0000  |
| 52  | 7   | 1.1824  | 0.0000            | 0.0000        | 0.2897 | 0.0000 | 0.0000  |
| 53  | 52  | 0.0065  | 0.0000            | 0.0000        | 0.1216 | 0.0000 | 0.0000  |



## C-VALUE DATA

System name : 0209I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 82. (Continued)

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 54  | 53  | 0.0241  | 0.0000            | 0.0000        | 0.2508 | 0.0000 | 3.6801  |
| 55  | 54  | 0.1753  | 0.0000            | 0.0000        | 1.3865 | 0.0000 | 10.3368 |
| 56  | 55  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 57  | 55  | 1.4000  | 2.4015            | 0.0000        | 0.1513 | 0.0000 | 0.0000  |
| 58  | 54  | 1.0390  | 1.2552            | 0.0000        | 0.0773 | 0.0000 | 0.0000  |
| 59  | 53  | 0.4229  | 0.0000            | 0.0000        | 0.2629 | 3.5182 | 0.0000  |
| 60  | 59  | -0.0058 | 0.0000            | 0.0000        | 0.1963 | 0.0000 | 0.0000  |
| 61  | 60  | 0.1000  | 0.0000            | 0.0000        | 0.0809 | 0.0000 | 1.9010  |
| 62  | 61  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 63  | 61  | 1.0911  | 3.6452            | 0.0000        | 0.1259 | 0.0000 | 0.0000  |
| 64  | 60  | 0.8683  | 3.6452            | 0.0000        | 0.1259 | 0.0000 | 0.0000  |
| 65  | 59  | 0.4965  | 0.0000            | 0.0000        | 1.8865 | 0.0000 | 3.3846  |
| 66  | 65  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 67  | 65  | 1.4000  | 5.4479            | 0.0000        | 0.5346 | 0.0000 | 0.0000  |
| 68  | 52  | 0.8459  | 2.4015            | 0.0000        | 0.1513 | 0.0000 | 12.1045 |
| 69  | 7   | 1.7000  | 0.0000            | 0.0000        | 0.3152 | 0.0000 | 6.3076  |
| 70  | 69  | 0.0567  | 0.0000            | 0.0000        | 0.3779 | 0.0000 | 0.0000  |
| 71  | 70  | 0.3581  | 0.0000            | 0.0000        | 0.2095 | 0.0000 | 0.0000  |
| 72  | 71  | 0.3581  | 0.0000            | 0.0000        | 0.4199 | 0.9889 | 0.0000  |
| 73  | 72  | 0.2500  | 0.0000            | 0.0000        | 0.2811 | 0.0000 | 0.0000  |
| 74  | 73  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 75  | 73  | 1.4000  | 7.8449            | 0.0000        | 0.2288 | 0.0000 | 0.0000  |
| 76  | 72  | 0.2500  | 0.0000            | 0.0000        | 0.2492 | 0.0000 | 0.0203  |
| 77  | 76  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 78  | 76  | 1.4000  | 7.8449            | 0.0000        | 0.2323 | 0.0000 | 0.0000  |
| 79  | 69  | 0.4238  | 0.0000            | 0.0000        | 0.4964 | 0.0000 | 0.4516  |
| 80  | 79  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 81  | 79  | 1.0397  | 0.0000            | 0.0000        | 0.1163 | 0.0000 | 0.0000  |
| 82  | 81  | 0.2200  | 5.0247            | 0.0000        | 0.1567 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0209I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 1328.1 L/s |
| Fan Static Pressure .....                     | :           | 0.1656 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.2270 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.2270 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.2270 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.1656 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.2270 kPa |
| Total Downstream Losses ..... | : | 0.2270 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0209I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 82.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.2270            | 0.1999             | 6.6      | 0.0271               | 22.2122 E+04       |
| 2   | 0.2260            | 0.1990             | 6.6      | 0.0271               | 22.2122 E+04       |
| 3   | 0.2171            | 0.1901             | 6.6      | 0.0271               | 22.2122 E+04       |
| 4   | 0.2022            | 0.1751             | 6.6      | 0.0271               | 22.2122 E+04       |
| 5   | 0.1934            | 0.1663             | 6.6      | 0.0271               | 22.2122 E+04       |
| 6   | 0.1793            | 0.1522             | 6.6      | 0.0271               | 22.2122 E+04       |
| 7   | 0.1704            | 0.1433             | 6.6      | 0.0271               | 22.2122 E+04       |
| 8   | 0.1200            | 0.0936             | 6.6      | 0.0265               | 15.9199 E+04       |
| 9   | 0.0473            | 0.0428             | 2.7      | 0.0045               | 4.0577 E+04        |
| 10  | 0.0223            | 0.0211             | 1.4      | 0.0011               | 2.0289 E+04        |
| 11  | 0.0208            | 0.0163             | 2.7      | 0.0045               | 2.9539 E+04        |
| 12  | 0.0225            | 0.0214             | 1.4      | 0.0011               | 2.0289 E+04        |
| 13  | 0.0209            | 0.0164             | 2.7      | 0.0045               | 2.9539 E+04        |
| 14  | 0.0771            | 0.0583             | 5.5      | 0.0188               | 13.4172 E+04       |
| 15  | 0.0653            | 0.0496             | 5.1      | 0.0157               | 12.2621 E+04       |
| 16  | 0.0645            | 0.0532             | 4.3      | 0.0113               | 10.4140 E+04       |
| 17  | 0.0621            | 0.0493             | 4.6      | 0.0128               | 10.2580 E+04       |
| 18  | 0.0574            | 0.0453             | 4.4      | 0.0121               | 9.1077 E+04        |
| 19  | 0.0072            | 0.0060             | 1.4      | 0.0013               | 2.2619 E+04        |
| 20  | 0.0047            | 0.0042             | 0.9      | 0.0005               | 1.3919 E+04        |
| 21  | 0.0002            | 0.0002             | 0.0      | 0.0000               | 0.0000 E+04        |
| 22  | 0.0047            | -0.0018            | 3.3      | 0.0065               | 2.7921 E+04        |
| 23  | 0.0043            | 0.0041             | 0.6      | 0.0002               | 0.8699 E+04        |
| 24  | 0.0001            | 0.0001             | 0.0      | 0.0000               | 0.0000 E+04        |
| 25  | 0.0037            | 0.0011             | 2.0      | 0.0025               | 1.7450 E+04        |
| 26  | 0.0556            | 0.0443             | 4.3      | 0.0113               | 8.0396 E+04        |
| 27  | 0.0418            | 0.0320             | 4.0      | 0.0098               | 6.6900 E+04        |
| 28  | 0.0366            | 0.0267             | 4.0      | 0.0098               | 6.6900 E+04        |
| 29  | 0.0307            | 0.0244             | 3.2      | 0.0063               | 4.6048 E+04        |
| 30  | 0.0266            | 0.0238             | 2.1      | 0.0028               | 3.0699 E+04        |
| 31  | 0.0226            | 0.0219             | 1.1      | 0.0007               | 1.5349 E+04        |
| 32  | 0.0003            | 0.0003             | 0.0      | 0.0000               | 0.0000 E+04        |
| 33  | 0.0220            | 0.0154             | 3.3      | 0.0065               | 2.7921 E+04        |
| 34  | 0.0249            | 0.0184             | 3.3      | 0.0065               | 2.7921 E+04        |
| 35  | 0.0273            | 0.0208             | 3.3      | 0.0065               | 2.7921 E+04        |
| 36  | 0.0284            | 0.0256             | 2.1      | 0.0028               | 3.0699 E+04        |
| 37  | 0.0011            | 0.0011             | 0.0      | 0.0000               | 0.0000 E+04        |
| 38  | 0.0254            | 0.0157             | 4.0      | 0.0097               | 4.3626 E+04        |
| 39  | 0.0333            | 0.0262             | 3.4      | 0.0071               | 3.7246 E+04        |
| 40  | 0.0341            | 0.0300             | 2.6      | 0.0041               | 3.3433 E+04        |
| 41  | 0.0016            | 0.0016             | 0.0      | 0.0000               | 0.0000 E+04        |
| 42  | 0.0285            | 0.0228             | 3.1      | 0.0057               | 2.6176 E+04        |
| 43  | 0.0286            | 0.0221             | 3.3      | 0.0065               | 2.7921 E+04        |
| 44  | 0.0313            | 0.0248             | 3.3      | 0.0065               | 2.7921 E+04        |
| 45  | 0.0375            | 0.0310             | 3.3      | 0.0065               | 2.7921 E+04        |
| 46  | 0.0057            | -0.0008            | 3.3      | 0.0065               | 2.7921 E+04        |
| 47  | 0.0519            | 0.0454             | 3.3      | 0.0065               | 2.7921 E+04        |
| 48  | 0.0357            | 0.0327             | 2.2      | 0.0030               | 2.4971 E+04        |
| 49  | 0.0211            | 0.0204             | 1.1      | 0.0008               | 1.2485 E+04        |
| 50  | 0.0207            | 0.0181             | 2.0      | 0.0025               | 1.7450 E+04        |
| 51  | 0.0240            | 0.0214             | 2.0      | 0.0025               | 1.7450 E+04        |



## PRESSURE LOSS DATA II

System name : 0209I

20-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 82. (Continued)

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 52  | 0.1236            | 0.1075             | 5.1      | 0.0161               | 12.4233 E+04       |
| 53  | 0.0869            | 0.0728             | 4.8      | 0.0141               | 11.6148 E+04       |
| 54  | 0.0380            | 0.0253             | 4.6      | 0.0128               | 8.5400 E+04        |
| 55  | 0.0191            | 0.0177             | 1.6      | 0.0015               | 1.7480 E+04        |
| 56  | 0.0006            | 0.0006             | 0.0      | 0.0000               | 0.0000 E+04        |
| 57  | 0.0148            | 0.0098             | 2.9      | 0.0050               | 2.4431 E+04        |
| 58  | 0.0345            | 0.0186             | 5.1      | 0.0159               | 8.7252 E+04        |
| 59  | 0.0851            | 0.0734             | 4.4      | 0.0117               | 7.2846 E+04        |
| 60  | 0.0350            | 0.0215             | 4.7      | 0.0135               | 7.0334 E+04        |
| 61  | 0.0260            | 0.0226             | 2.3      | 0.0034               | 3.5167 E+04        |
| 62  | 0.0014            | 0.0014             | 0.0      | 0.0000               | 0.0000 E+04        |
| 63  | 0.0244            | 0.0189             | 3.0      | 0.0055               | 4.0960 E+04        |
| 64  | 0.0324            | 0.0270             | 3.0      | 0.0055               | 4.0960 E+04        |
| 65  | 0.0313            | 0.0302             | 1.3      | 0.0011               | 1.4982 E+04        |
| 66  | 0.0004            | 0.0004             | 0.0      | 0.0000               | 0.0000 E+04        |
| 67  | 0.0235            | 0.0198             | 2.4      | 0.0037               | 2.0941 E+04        |
| 68  | 0.0264            | 0.0214             | 2.9      | 0.0050               | 2.4431 E+04        |
| 69  | 0.0795            | 0.0725             | 3.4      | 0.0070               | 4.3648 E+04        |
| 70  | 0.0312            | 0.0282             | 2.2      | 0.0030               | 2.4971 E+04        |
| 71  | 0.0297            | 0.0267             | 2.2      | 0.0030               | 2.4971 E+04        |
| 72  | 0.0280            | 0.0249             | 2.2      | 0.0030               | 2.4971 E+04        |
| 73  | 0.0226            | 0.0219             | 1.1      | 0.0008               | 1.2485 E+04        |
| 74  | 0.0003            | 0.0003             | 0.0      | 0.0000               | 0.0000 E+04        |
| 75  | 0.0216            | 0.0191             | 2.0      | 0.0025               | 1.7450 E+04        |
| 76  | 0.0226            | 0.0218             | 1.1      | 0.0008               | 1.2485 E+04        |
| 77  | 0.0003            | 0.0003             | 0.0      | 0.0000               | 0.0000 E+04        |
| 78  | 0.0217            | 0.0191             | 2.0      | 0.0025               | 1.7450 E+04        |
| 79  | 0.0298            | 0.0266             | 2.3      | 0.0032               | 2.5560 E+04        |
| 80  | 0.0013            | 0.0013             | 0.0      | 0.0000               | 0.0000 E+04        |
| 81  | 0.0253            | 0.0213             | 2.5      | 0.0040               | 2.7910 E+04        |
| 82  | 0.0215            | 0.0175             | 2.5      | 0.0040               | 2.7910 E+04        |

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## SIZE DATA

System name : 0209R

21-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 8.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1262.3          | 6.3      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 2   | REC   | 1262.3          | 6.3      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 3   | REC   | 1262.3          | 6.3      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 4   | REC   | 1262.3          | 6.3      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 5   | REC   | 1262.3          | 6.3      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 6   | REC   | 1262.3          | 6.3      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 7   | REC   | 574.8           | 5.5      | 350.0               | 300.0  | 350.0                 | 300.0  |
| 8   | REC   | 687.5           | 5.7      | 400.0               | 300.0  | 400.0                 | 300.0  |

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PRESSURE LOSS DATA

System name : 0209R 21-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 8.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 2   | 0.0064      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0081        |
| 3   | 0.0064      | 0.0000                    | 0.0000                | 0.0057       | 0.0000        | 0.0000          | 0.0120        |
| 4   | 0.0064      | 0.0000                    | 0.0000                | 0.0051       | 0.0000        | 0.0000          | 0.0115        |
| 5   | 0.0064      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0077        |
| 6   | 0.0064      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0089        |
| 7   | 0.0134      | 0.1100                    | 0.0000                | 0.0029       | 0.0000        | 0.1020          | 0.2282        |
| 8   | 0.0227      | 0.2050                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.2282        |

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## C-VALUE DATA

System name : 0209R

21-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 8.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0347 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2599 | 0.0000            | 0.0000        | 0.0694 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2599 | 0.0000            | 0.0000        | 0.2314 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2599 | 0.0000            | 0.0000        | 0.2102 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2599 | 0.0000            | 0.0000        | 0.0544 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2599 | 0.0000            | 0.0000        | 0.1041 | 0.0000 | 0.0000  |
| 7   | 6   | 0.5479 | 5.9753            | 0.0000        | 0.1562 | 0.0000 | 5.5380  |
| 8   | 6   | 0.9296 | 10.1669           | 0.0000        | 0.0240 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0209R 21-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 1262.3 L/s  |
| Fan Static Pressure .....                     | :           | 0.2158 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.2773 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.2773 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.2773 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.3387 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.2773 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.2773 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



PRESSURE LOSS DATA II

System name : 0209R 21-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 8.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.2773           | -0.3017            | 6.3      | 0.0245               | 21.1118 E+04       |
| 2   | -0.2764           | -0.3009            | 6.3      | 0.0245               | 21.1118 E+04       |
| 3   | -0.2684           | -0.2928            | 6.3      | 0.0245               | 21.1118 E+04       |
| 4   | -0.2563           | -0.2808            | 6.3      | 0.0245               | 21.1118 E+04       |
| 5   | -0.2448           | -0.2693            | 6.3      | 0.0245               | 21.1118 E+04       |
| 6   | -0.2371           | -0.2616            | 6.3      | 0.0245               | 21.1118 E+04       |
| 7   | -0.1263           | -0.1447            | 5.5      | 0.0184               | 13.2786 E+04       |
| 8   | -0.2282           | -0.2484            | 5.7      | 0.0202               | 14.8291 E+04       |

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## SIZE DATA

System name : 0209\_0R

21-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 75.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 574.8           | 5.5      | 350.0               | 300.0  | 350.0                 | 300.0  |
| 2   | REC   | 197.6           | 4.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 3   | REC   | 197.6           | 4.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 4   | REC   | 197.6           | 4.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 5   | REC   | 173.8           | 4.3      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 6   | REC   | 98.8            | 3.3      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 7   | REC   | 23.8            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 8   | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 9   | RND   | 23.8            | 1.9      | -----               | 125.0  | -----                 | 125.0  |
| 10  | RND   | 75.0            | 3.7      | -----               | 160.0  | -----                 | 160.0  |
| 11  | RND   | 50.0            | 2.5      | -----               | 160.0  | -----                 | 160.0  |
| 12  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 13  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 14  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 15  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 16  | RND   | 75.0            | 3.7      | -----               | 160.0  | -----                 | 160.0  |
| 17  | RND   | 50.0            | 2.5      | -----               | 160.0  | -----                 | 160.0  |
| 18  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 19  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 20  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 21  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 22  | REC   | 23.8            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 23  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 24  | RND   | 23.8            | 3.0      | -----               | 100.0  | -----                 | 100.0  |
| 25  | REC   | 377.2           | 5.0      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 26  | REC   | 356.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 27  | REC   | 331.0           | 4.4      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 28  | REC   | 309.0           | 4.1      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 29  | REC   | 159.1           | 4.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 30  | REC   | 137.9           | 4.6      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 31  | REC   | 137.9           | 4.6      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 32  | REC   | 112.9           | 3.8      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 33  | REC   | 95.3            | 4.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 34  | REC   | 77.7            | 3.5      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 35  | REC   | 17.6            | 0.8      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 36  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 37  | RND   | 17.6            | 2.2      | -----               | 100.0  | -----                 | 100.0  |
| 38  | RND   | 60.1            | 3.0      | -----               | 160.0  | -----                 | 160.0  |
| 39  | RND   | 35.1            | 2.9      | -----               | 125.0  | -----                 | 125.0  |
| 40  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 41  | RND   | 17.6            | 2.2      | -----               | 100.0  | -----                 | 100.0  |
| 42  | RND   | 17.6            | 2.2      | -----               | 100.0  | -----                 | 100.0  |
| 43  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 44  | RND   | 21.2            | 2.7      | -----               | 100.0  | -----                 | 100.0  |
| 45  | RND   | 21.2            | 2.7      | -----               | 100.0  | -----                 | 100.0  |
| 46  | REC   | 119.9           | 4.0      | 200.0               | 150.0  | 200.0                 | 150.0  |
| 47  | REC   | 98.7            | 4.4      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 48  | REC   | 77.5            | 3.4      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 49  | REC   | 61.0            | 2.7      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## SIZE DATA

System name : 0209\_0R

21-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 75. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 50  | REC   | 61.0            | 2.7      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 51  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 52  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 53  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 54  | RND   | 50.0            | 2.5      | -----               | 160.0  | -----                 | 160.0  |
| 55  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 56  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 57  | RND   | 11.0            | 1.4      | -----               | 100.0  | -----                 | 100.0  |
| 58  | RND   | 11.0            | 1.4      | -----               | 100.0  | -----                 | 100.0  |
| 59  | RND   | 16.5            | 2.1      | -----               | 100.0  | -----                 | 100.0  |
| 60  | RND   | 21.2            | 2.7      | -----               | 100.0  | -----                 | 100.0  |
| 61  | REC   | 21.2            | 0.9      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 62  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 63  | RND   | 21.2            | 2.7      | -----               | 100.0  | -----                 | 100.0  |
| 64  | REC   | 30.0            | 1.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 65  | RND   | 30.0            | 2.4      | -----               | 125.0  | -----                 | 125.0  |
| 66  | REC   | 22.0            | 1.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 67  | REC   | 22.0            | 1.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 68  | REC   | 11.0            | 0.5      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 69  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 70  | RND   | 11.0            | 1.4      | -----               | 100.0  | -----                 | 100.0  |
| 71  | RND   | 11.0            | 1.4      | -----               | 100.0  | -----                 | 100.0  |
| 72  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 73  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 74  | RND   | 21.2            | 2.7      | -----               | 100.0  | -----                 | 100.0  |
| 75  | RND   | 21.2            | 2.7      | -----               | 100.0  | -----                 | 100.0  |

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## PRESSURE LOSS DATA

System name : 0209\_0R

21-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 75.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0023       | 0.0290        | 0.0000          | 0.0313        |
| 2   | 0.0042      | 0.0000                    | 0.0000                | 0.0046       | 0.0380        | 0.0000          | 0.0468        |
| 3   | 0.0044      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0067        |
| 4   | 0.0044      | 0.0000                    | 0.0000                | 0.0068       | 0.0000        | 0.0000          | 0.0112        |
| 5   | 0.0010      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0019        |
| 6   | 0.0056      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0080        |
| 7   | 0.0040      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0476          | 0.0521        |
| 8   | 0.0004      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0136          | 0.0140        |
| 9   | 0.0038      | 0.0100                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0140        |
| 10  | 0.0175      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0180        |
| 11  | 0.0035      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0045        |
| 12  | 0.0020      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0027        |
| 13  | 0.0006      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0408        |
| 14  | 0.0025      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0008          | 0.0436        |
| 15  | 0.0027      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0051          | 0.0481        |
| 16  | 0.0047      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0208          | 0.0261        |
| 17  | 0.0035      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0045        |
| 18  | 0.0020      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0027        |
| 19  | 0.0006      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0408        |
| 20  | 0.0025      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0008          | 0.0436        |
| 21  | 0.0027      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0051          | 0.0481        |
| 22  | 0.0031      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0581          | 0.0617        |
| 23  | 0.0004      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0139          | 0.0143        |
| 24  | 0.0038      | 0.0100                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0143        |
| 25  | 0.0030      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0258          | 0.0307        |
| 26  | 0.0014      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0024        |
| 27  | 0.0016      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0023        |
| 28  | 0.0013      | 0.0000                    | 0.0000                | 0.0065       | 0.0000        | 0.0000          | 0.0078        |
| 29  | 0.0098      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0109        |
| 30  | 0.0019      | 0.0000                    | 0.0000                | 0.0071       | 0.0000        | 0.0000          | 0.0090        |
| 31  | 0.0044      | 0.0000                    | 0.0000                | 0.0110       | 0.0000        | 0.0000          | 0.0154        |
| 32  | 0.0032      | 0.0000                    | 0.0000                | 0.0086       | 0.0000        | 0.0000          | 0.0119        |
| 33  | 0.0019      | 0.0000                    | 0.0000                | 0.0061       | 0.0000        | 0.0000          | 0.0081        |
| 34  | 0.0028      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0046        |
| 35  | 0.0044      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0199          | 0.0245        |
| 36  | 0.0002      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0131          | 0.0133        |
| 37  | 0.0021      | 0.0100                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0133        |
| 38  | 0.0204      | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0000          | 0.0238        |
| 39  | 0.0026      | 0.0100                    | 0.0000                | 0.0008       | 0.0000        | 0.0006          | 0.0140        |
| 40  | 0.0030      | 0.0100                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0140        |
| 41  | -0.0062     | 0.0100                    | 0.0000                | 0.0012       | 0.0000        | 0.0373          | 0.0423        |
| 42  | -0.0051     | 0.0100                    | 0.0000                | 0.0012       | 0.0000        | 0.0443          | 0.0504        |
| 43  | -0.0073     | 0.0100                    | 0.0000                | 0.0004       | 0.0000        | 0.0593          | 0.0623        |
| 44  | -0.0059     | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0871          | 0.0820        |
| 45  | 0.0010      | 0.0030                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0047        |
| 46  | 0.0178      | 0.0000                    | 0.0000                | 0.0091       | 0.0000        | 0.0185          | 0.0454        |
| 47  | 0.0015      | 0.0000                    | 0.0000                | 0.0039       | 0.0000        | 0.0000          | 0.0054        |
| 48  | 0.0034      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0046        |
| 49  | 0.0021      | 0.0000                    | 0.0000                | 0.0043       | 0.0000        | 0.0000          | 0.0064        |
| 50  | 0.0016      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0022        |



## PRESSURE LOSS DATA

System name : 0209\_0R

21-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 75. (Continued)

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 51  | 0.0011      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0015        |
| 52  | 0.0011      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0017        |
| 53  | 0.0017      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0289          | 0.0306        |
| 54  | 0.0170      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0178        |
| 55  | 0.0021      | 0.0100                    | 0.0000                | 0.0003       | 0.0000        | 0.0003          | 0.0127        |
| 56  | 0.0021      | 0.0100                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0127        |
| 57  | -0.0026     | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0254          | 0.0230        |
| 58  | 0.0003      | 0.0100                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0108        |
| 59  | -0.0034     | 0.0100                    | 0.0000                | 0.0005       | 0.0000        | 0.0352          | 0.0423        |
| 60  | -0.0053     | 0.0100                    | 0.0000                | 0.0008       | 0.0000        | 0.0414          | 0.0469        |
| 61  | 0.0015      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0362          | 0.0384        |
| 62  | 0.0003      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0136          | 0.0139        |
| 63  | 0.0031      | 0.0100                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0139        |
| 64  | -0.0012     | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0875          | 0.0871        |
| 65  | 0.0000      | 0.0100                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0106        |
| 66  | -0.0099     | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.1026          | 0.0932        |
| 67  | 0.0002      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0006        |
| 68  | 0.0003      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0004        |
| 69  | 0.0001      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0112          | 0.0113        |
| 70  | 0.0008      | 0.0100                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0113        |
| 71  | 0.0005      | 0.0100                    | 0.0000                | 0.0012       | 0.0000        | 0.0001          | 0.0117        |
| 72  | -0.0115     | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.1005          | 0.0893        |
| 73  | 0.0008      | 0.0170                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0184        |
| 74  | -0.0098     | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.1142          | 0.1052        |
| 75  | 0.0010      | 0.0030                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0049        |

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## C-VALUE DATA

System name : 0209\_0R

21-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 75.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.1230 | 1.5751 | 0.0000  |
| 2   | 1   | 0.2300  | 0.0000            | 0.0000        | 0.3068 | 2.5348 | 0.0000  |
| 3   | 2   | 0.2948  | 0.0000            | 0.0000        | 0.1553 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2948  | 0.0000            | 0.0000        | 0.4541 | 0.0000 | 0.0000  |
| 5   | 4   | 0.0700  | 0.0000            | 0.0000        | 0.0705 | 0.0000 | 0.0000  |
| 6   | 5   | 0.4821  | 0.0000            | 0.0000        | 0.3684 | 0.0000 | 0.0000  |
| 7   | 6   | 0.5959  | 0.0000            | 0.0000        | 0.8606 | 0.0000 | 69.1918 |
| 8   | 7   | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 9   | 7   | 5.6000  | 4.3280            | 0.0000        | 0.0652 | 0.0000 | 0.0000  |
| 10  | 6   | 2.6216  | 0.0000            | 0.0000        | 0.0665 | 0.0000 | 0.0000  |
| 11  | 10  | 0.4067  | 0.0000            | 0.0000        | 0.2694 | 0.0000 | 0.0000  |
| 12  | 11  | 0.5300  | 0.0000            | 0.0000        | 0.2877 | 0.0000 | 0.0000  |
| 13  | 12  | 0.2200  | 15.6899           | 0.0000        | 0.1090 | 0.0000 | 0.0000  |
| 14  | 11  | 0.6512  | 15.6899           | 0.0000        | 0.1090 | 0.0000 | 0.3271  |
| 15  | 10  | 0.3141  | 15.6899           | 0.0000        | 0.1090 | 0.0000 | 2.0091  |
| 16  | 5   | 0.4034  | 0.0000            | 0.0000        | 0.0665 | 0.0000 | 2.4371  |
| 17  | 16  | 0.4067  | 0.0000            | 0.0000        | 0.2694 | 0.0000 | 0.0000  |
| 18  | 17  | 0.5300  | 0.0000            | 0.0000        | 0.2877 | 0.0000 | 0.0000  |
| 19  | 18  | 0.2200  | 15.6899           | 0.0000        | 0.1097 | 0.0000 | 0.0000  |
| 20  | 17  | 0.6512  | 15.6899           | 0.0000        | 0.1097 | 0.0000 | 0.3271  |
| 21  | 16  | 0.3141  | 15.6899           | 0.0000        | 0.1097 | 0.0000 | 2.0091  |
| 22  | 4   | 0.2100  | 0.0000            | 0.0000        | 0.7213 | 0.0000 | 84.5220 |
| 23  | 22  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 24  | 22  | 5.6000  | 1.7727            | 0.0000        | 0.0788 | 0.0000 | 0.0000  |
| 25  | 1   | 0.1614  | 0.0000            | 0.0000        | 0.1273 | 0.0000 | 1.6595  |
| 26  | 25  | 0.0900  | 0.0000            | 0.0000        | 0.0727 | 0.0000 | 0.0000  |
| 27  | 26  | 0.1124  | 0.0000            | 0.0000        | 0.0594 | 0.0000 | 0.0000  |
| 28  | 27  | 0.1063  | 0.0000            | 0.0000        | 0.6234 | 0.0000 | 0.0000  |
| 29  | 28  | 0.9436  | 0.0000            | 0.0000        | 0.1117 | 0.0000 | 0.0000  |
| 30  | 29  | 0.1966  | 0.0000            | 0.0000        | 0.5491 | 0.0000 | 0.0000  |
| 31  | 30  | 0.3364  | 0.0000            | 0.0000        | 0.8500 | 0.0000 | 0.0000  |
| 32  | 31  | 0.2494  | 0.0000            | 0.0000        | 0.9925 | 0.0000 | 0.0000  |
| 33  | 32  | 0.2215  | 0.0000            | 0.0000        | 0.5577 | 0.0000 | 0.0000  |
| 34  | 33  | 0.2531  | 0.0000            | 0.0000        | 0.2407 | 0.0000 | 0.0000  |
| 35  | 34  | 0.5973  | 0.0000            | 0.0000        | 0.4297 | 0.0000 | 53.0238 |
| 36  | 35  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |
| 37  | 35  | 5.6000  | 3.2417            | 0.0000        | 0.3945 | 0.0000 | 0.0000  |
| 38  | 34  | 2.7898  | 0.0000            | 0.0000        | 0.6182 | 0.0000 | 0.0000  |
| 39  | 38  | 0.4712  | 1.9899            | 0.0000        | 0.1511 | 0.0000 | 0.1221  |
| 40  | 38  | 0.5517  | 3.9225            | 0.0000        | 0.3651 | 0.0000 | 0.0000  |
| 41  | 33  | -0.5623 | 3.2417            | 0.0000        | 0.3945 | 0.0000 | 12.0987 |
| 42  | 32  | -0.5853 | 3.2417            | 0.0000        | 0.3945 | 0.0000 | 14.3579 |
| 43  | 31  | -0.5650 | 3.9225            | 0.0000        | 0.1439 | 0.0000 | 23.2425 |
| 44  | 29  | -0.6034 | 0.0000            | 0.0000        | 0.1675 | 0.0000 | 19.4468 |
| 45  | 44  | 0.2200  | 0.6696            | 0.0000        | 0.1634 | 0.0000 | 0.0000  |
| 46  | 28  | 1.7044  | 0.0000            | 0.0000        | 0.9299 | 0.0000 | 1.8813  |
| 47  | 46  | 0.1500  | 0.0000            | 0.0000        | 0.3312 | 0.0000 | 0.0000  |
| 48  | 47  | 0.2864  | 0.0000            | 0.0000        | 0.1600 | 0.0000 | 0.0000  |
| 49  | 48  | 0.2842  | 0.0000            | 0.0000        | 0.9531 | 0.0000 | 0.0000  |
| 50  | 49  | 0.3436  | 0.0000            | 0.0000        | 0.1329 | 0.0000 | 0.0000  |
| 51  | 50  | 0.2484  | 0.0000            | 0.0000        | 0.1383 | 0.0000 | 0.0000  |
| 52  | 51  | 0.3581  | 0.0000            | 0.0000        | 0.2112 | 0.0000 | 0.0000  |
| 53  | 52  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000  |



## C-VALUE DATA

System name : 0209\_0R

21-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 75. (Continued)

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-----
Sec    Frm      Fit      Equip      Equip      Fric      Other      Balance
      Terminal  Thru
-----
54     52      5.6000    0.0000    0.0000    0.2219    0.0000    0.0000
55     54      0.5600    3.9225    0.0000    0.1177    0.0000    0.1144
56     54      0.5600    3.9225    0.0000    0.2321    0.0000    0.0000
57     50     -0.5657    0.0000    0.0000    0.1318    0.0000    21.0934
58     57      0.2200    8.2988    0.0000    0.4407    0.0000    0.0000
59     48     -0.4623    3.6883    0.0000    0.1867    0.0000    12.9854
60     47     -0.4489    2.2321    0.0000    0.1775    0.0000    9.2428
61     46      0.1500    0.0000    0.0000    1.4327    0.0000    66.2738
62     61      0.0000    0.0000    0.0000    0.0000    0.0000    0.0000
63     61      5.6000    2.2321    0.0000    0.1775    0.0000    0.0000
64     28     -0.1171    0.0000    0.0000    0.7488    0.0000    80.0991
65     64      0.0000    2.7239    0.0000    0.1584    0.0000    0.0000
66     27     -0.8300    0.0000    0.0000    0.8491    0.0000    174.7129
67     66      0.4152    0.0000    0.0000    0.5329    0.0000    0.0000
68     67      0.5300    0.0000    0.0000    0.5049    0.0000    0.0000
69     68      0.0000    0.0000    0.0000    0.0000    0.0000    0.0000
70     68      5.6000    8.2988    0.0000    0.4052    0.0000    0.0000
71     67      0.7800    8.2988    0.0000    0.9742    0.0000    0.0530
72     26     -0.8300    0.0000    0.0000    0.4126    0.0000    132.4547
73     72      0.3000    6.6682    0.0000    0.2563    0.0000    0.0000
74     25     -0.6300    0.0000    0.0000    0.1675    0.0000    25.4972
75     74      0.2200    0.6696    0.0000    0.2065    0.0000    0.0000
-----
*****

```



## FAN DATA PRINTOUT

System name : 0209\_0R

21-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 574.8 L/s   |
| Fan Static Pressure .....                     | :           | 0.1107 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1721 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1721 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1721 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.2335 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.1721 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1721 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0209\_0R

21-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 75.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1721           | -0.1905            | 5.5      | 0.0184               | 13.2795 E+04       |
| 2   | -0.1408           | -0.1558            | 4.9      | 0.0150               | 7.4013 E+04        |
| 3   | -0.0940           | -0.1090            | 4.9      | 0.0150               | 7.4013 E+04        |
| 4   | -0.0873           | -0.1023            | 4.9      | 0.0150               | 7.4013 E+04        |
| 5   | -0.0760           | -0.0876            | 4.3      | 0.0116               | 6.5099 E+04        |
| 6   | -0.0742           | -0.0808            | 3.3      | 0.0067               | 4.2622 E+04        |
| 7   | -0.0186           | -0.0192            | 1.1      | 0.0007               | 1.1886 E+04        |
| 8   | -0.0004           | -0.0004            | 0.0      | 0.0000               | 0.0000 E+04        |
| 9   | -0.0140           | -0.0163            | 1.9      | 0.0023               | 1.6613 E+04        |
| 10  | -0.0661           | -0.0747            | 3.7      | 0.0085               | 4.0899 E+04        |
| 11  | -0.0481           | -0.0519            | 2.5      | 0.0038               | 2.7266 E+04        |
| 12  | -0.0436           | -0.0461            | 2.0      | 0.0025               | 1.7450 E+04        |
| 13  | -0.0408           | -0.0434            | 2.0      | 0.0025               | 1.7450 E+04        |
| 14  | -0.0428           | -0.0453            | 2.0      | 0.0025               | 1.7450 E+04        |
| 15  | -0.0430           | -0.0455            | 2.0      | 0.0025               | 1.7450 E+04        |
| 16  | -0.0533           | -0.0619            | 3.7      | 0.0085               | 4.0899 E+04        |
| 17  | -0.0481           | -0.0519            | 2.5      | 0.0038               | 2.7266 E+04        |
| 18  | -0.0436           | -0.0461            | 2.0      | 0.0025               | 1.7450 E+04        |
| 19  | -0.0408           | -0.0434            | 2.0      | 0.0025               | 1.7450 E+04        |
| 20  | -0.0428           | -0.0453            | 2.0      | 0.0025               | 1.7450 E+04        |
| 21  | -0.0430           | -0.0455            | 2.0      | 0.0025               | 1.7450 E+04        |
| 22  | -0.0179           | -0.0186            | 1.1      | 0.0007               | 1.1886 E+04        |
| 23  | -0.0004           | -0.0004            | 0.0      | 0.0000               | 0.0000 E+04        |
| 24  | -0.0143           | -0.0199            | 3.0      | 0.0056               | 2.0766 E+04        |
| 25  | -0.1150           | -0.1306            | 5.0      | 0.0155               | 10.3083 E+04       |
| 26  | -0.1101           | -0.1239            | 4.7      | 0.0138               | 9.7288 E+04        |
| 27  | -0.1077           | -0.1197            | 4.4      | 0.0120               | 9.0456 E+04        |
| 28  | -0.1054           | -0.1159            | 4.1      | 0.0104               | 8.4445 E+04        |
| 29  | -0.0977           | -0.1074            | 4.0      | 0.0097               | 5.9596 E+04        |
| 30  | -0.0867           | -0.0997            | 4.6      | 0.0130               | 5.9489 E+04        |
| 31  | -0.0777           | -0.0907            | 4.6      | 0.0130               | 5.9489 E+04        |
| 32  | -0.0623           | -0.0710            | 3.8      | 0.0087               | 4.8704 E+04        |
| 33  | -0.0504           | -0.0614            | 4.2      | 0.0110               | 4.7594 E+04        |
| 34  | -0.0423           | -0.0497            | 3.5      | 0.0073               | 3.8805 E+04        |
| 35  | -0.0179           | -0.0182            | 0.8      | 0.0004               | 0.8790 E+04        |
| 36  | -0.0002           | -0.0002            | 0.0      | 0.0000               | 0.0000 E+04        |
| 37  | -0.0133           | -0.0164            | 2.2      | 0.0031               | 1.5356 E+04        |
| 38  | -0.0378           | -0.0433            | 3.0      | 0.0055               | 3.2774 E+04        |
| 39  | -0.0133           | -0.0184            | 2.9      | 0.0050               | 2.4500 E+04        |
| 40  | -0.0140           | -0.0165            | 2.0      | 0.0025               | 1.7450 E+04        |
| 41  | -0.0050           | -0.0081            | 2.2      | 0.0031               | 1.5356 E+04        |
| 42  | -0.0061           | -0.0092            | 2.2      | 0.0031               | 1.5356 E+04        |
| 43  | -0.0030           | -0.0056            | 2.0      | 0.0025               | 1.7450 E+04        |
| 44  | 0.0004            | -0.0041            | 2.7      | 0.0045               | 1.8506 E+04        |
| 45  | -0.0047           | -0.0092            | 2.7      | 0.0045               | 1.8506 E+04        |
| 46  | -0.0792           | -0.0890            | 4.0      | 0.0098               | 5.1733 E+04        |
| 47  | -0.0523           | -0.0641            | 4.4      | 0.0118               | 4.9297 E+04        |
| 48  | -0.0469           | -0.0542            | 3.4      | 0.0073               | 3.8705 E+04        |
| 49  | -0.0423           | -0.0469            | 2.7      | 0.0045               | 3.0464 E+04        |
| 50  | -0.0360           | -0.0405            | 2.7      | 0.0045               | 3.0464 E+04        |
| 51  | -0.0338           | -0.0369            | 2.2      | 0.0030               | 2.4971 E+04        |



## PRESSURE LOSS DATA II

System name : 0209\_0R

21-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 75. (Continued)

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 52  | -0.0323           | -0.0353            | 2.2      | 0.0030               | 2.4971 E+04        |
| 53  | -0.0017           | -0.0017            | 0.0      | 0.0000               | 0.0000 E+04        |
| 54  | -0.0306           | -0.0343            | 2.5      | 0.0038               | 2.7266 E+04        |
| 55  | -0.0124           | -0.0150            | 2.0      | 0.0025               | 1.7450 E+04        |
| 56  | -0.0127           | -0.0153            | 2.0      | 0.0025               | 1.7450 E+04        |
| 57  | -0.0084           | -0.0096            | 1.4      | 0.0012               | 0.9598 E+04        |
| 58  | -0.0108           | -0.0120            | 1.4      | 0.0012               | 0.9598 E+04        |
| 59  | -0.0071           | -0.0098            | 2.1      | 0.0027               | 1.4397 E+04        |
| 60  | -0.0055           | -0.0100            | 2.7      | 0.0045               | 1.8506 E+04        |
| 61  | -0.0161           | -0.0167            | 0.9      | 0.0005               | 1.0593 E+04        |
| 62  | -0.0003           | -0.0003            | 0.0      | 0.0000               | 0.0000 E+04        |
| 63  | -0.0139           | -0.0183            | 2.7      | 0.0045               | 1.8506 E+04        |
| 64  | -0.0102           | -0.0113            | 1.3      | 0.0011               | 1.4982 E+04        |
| 65  | -0.0106           | -0.0143            | 2.4      | 0.0037               | 2.0941 E+04        |
| 66  | -0.0028           | -0.0034            | 1.0      | 0.0006               | 1.0987 E+04        |
| 67  | -0.0123           | -0.0128            | 1.0      | 0.0006               | 1.0987 E+04        |
| 68  | -0.0117           | -0.0118            | 0.5      | 0.0001               | 0.5494 E+04        |
| 69  | -0.0001           | -0.0001            | 0.0      | 0.0000               | 0.0000 E+04        |
| 70  | -0.0113           | -0.0125            | 1.4      | 0.0012               | 0.9598 E+04        |
| 71  | -0.0116           | -0.0128            | 1.4      | 0.0012               | 0.9598 E+04        |
| 72  | -0.0072           | -0.0080            | 1.1      | 0.0008               | 1.2485 E+04        |
| 73  | -0.0184           | -0.0210            | 2.0      | 0.0025               | 1.7450 E+04        |
| 74  | 0.0041            | -0.0003            | 2.7      | 0.0045               | 1.8506 E+04        |
| 75  | -0.0049           | -0.0094            | 2.7      | 0.0045               | 1.8506 E+04        |

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## SIZE DATA

System name : 0209\_1R

21-06-24

Prepared by : G.O.C.

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E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 76.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----><br>Width Height | <----- Airflow -----><br>Width Height |
|-----|-------|-----------------|----------|-------------------------------------|---------------------------------------|
|     |       | L/s             | m/s      | mm mm                               | mm mm                                 |
| 1   | REC   | 687.5           | 5.7      | 400.0 300.0                         | 400.0 300.0                           |
| 2   | REC   | 665.5           | 5.5      | 400.0 300.0                         | 400.0 300.0                           |
| 3   | REC   | 640.5           | 5.3      | 400.0 300.0                         | 400.0 300.0                           |
| 4   | REC   | 618.0           | 5.2      | 400.0 300.0                         | 400.0 300.0                           |
| 5   | REC   | 618.0           | 5.2      | 400.0 300.0                         | 400.0 300.0                           |
| 6   | REC   | 618.0           | 5.2      | 400.0 300.0                         | 400.0 300.0                           |
| 7   | REC   | 618.0           | 5.2      | 400.0 300.0                         | 400.0 300.0                           |
| 8   | REC   | 222.3           | 5.6      | 200.0 200.0                         | 200.0 200.0                           |
| 9   | REC   | 222.3           | 5.6      | 200.0 200.0                         | 200.0 200.0                           |
| 10  | REC   | 206.9           | 5.2      | 200.0 200.0                         | 200.0 200.0                           |
| 11  | REC   | 181.9           | 4.5      | 200.0 200.0                         | 200.0 200.0                           |
| 12  | REC   | 109.8           | 3.7      | 150.0 200.0                         | 150.0 200.0                           |
| 13  | REC   | 54.9            | 1.8      | 150.0 200.0                         | 150.0 200.0                           |
| 14  | REC   | 0.0             | 0.0      | 150.0 200.0                         | 150.0 200.0                           |
| 15  | RND   | 54.9            | 2.7      | ----- 160.0                         | ----- 160.0                           |
| 16  | RND   | 54.9            | 2.7      | ----- 160.0                         | ----- 160.0                           |
| 17  | REC   | 72.1            | 2.4      | 150.0 200.0                         | 150.0 200.0                           |
| 18  | REC   | 56.8            | 1.9      | 150.0 200.0                         | 150.0 200.0                           |
| 19  | REC   | 0.0             | 0.0      | 150.0 200.0                         | 150.0 200.0                           |
| 20  | RND   | 56.8            | 2.8      | ----- 160.0                         | ----- 160.0                           |
| 21  | RND   | 15.4            | 2.0      | ----- 100.0                         | ----- 100.0                           |
| 22  | RND   | 25.0            | 2.0      | ----- 125.0                         | ----- 125.0                           |
| 23  | RND   | 15.4            | 2.0      | ----- 100.0                         | ----- 100.0                           |
| 24  | REC   | 395.7           | 4.4      | 300.0 300.0                         | 300.0 300.0                           |
| 25  | REC   | 354.4           | 4.7      | 300.0 250.0                         | 300.0 250.0                           |
| 26  | REC   | 204.4           | 4.1      | 250.0 200.0                         | 250.0 200.0                           |
| 27  | REC   | 163.2           | 3.3      | 250.0 200.0                         | 250.0 200.0                           |
| 28  | REC   | 13.2            | 0.6      | 150.0 150.0                         | 150.0 150.0                           |
| 29  | REC   | 0.0             | 0.0      | 150.0 150.0                         | 150.0 150.0                           |
| 30  | RND   | 13.2            | 1.7      | ----- 100.0                         | ----- 100.0                           |
| 31  | RND   | 150.0           | 4.8      | ----- 200.0                         | ----- 200.0                           |
| 32  | RND   | 75.0            | 3.7      | ----- 160.0                         | ----- 160.0                           |
| 33  | RND   | 50.0            | 2.5      | ----- 160.0                         | ----- 160.0                           |
| 34  | RND   | 25.0            | 2.0      | ----- 125.0                         | ----- 125.0                           |
| 35  | RND   | 25.0            | 2.0      | ----- 125.0                         | ----- 125.0                           |
| 36  | RND   | 25.0            | 2.0      | ----- 125.0                         | ----- 125.0                           |
| 37  | RND   | 25.0            | 2.0      | ----- 125.0                         | ----- 125.0                           |
| 38  | RND   | 75.0            | 3.7      | ----- 160.0                         | ----- 160.0                           |
| 39  | RND   | 50.0            | 2.5      | ----- 160.0                         | ----- 160.0                           |
| 40  | RND   | 25.0            | 2.0      | ----- 125.0                         | ----- 125.0                           |
| 41  | RND   | 25.0            | 2.0      | ----- 125.0                         | ----- 125.0                           |
| 42  | RND   | 25.0            | 2.0      | ----- 125.0                         | ----- 125.0                           |
| 43  | RND   | 25.0            | 2.0      | ----- 125.0                         | ----- 125.0                           |
| 44  | REC   | 41.3            | 1.8      | 150.0 150.0                         | 150.0 150.0                           |
| 45  | REC   | 0.0             | 0.0      | 150.0 150.0                         | 150.0 150.0                           |
| 46  | RND   | 41.3            | 3.4      | ----- 125.0                         | ----- 125.0                           |
| 47  | REC   | 150.0           | 3.8      | 200.0 200.0                         | 200.0 200.0                           |
| 48  | REC   | 0.0             | 0.0      | 200.0 200.0                         | 200.0 200.0                           |
| 49  | RND   | 150.0           | 4.8      | ----- 200.0                         | ----- 200.0                           |

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## SIZE DATA

System name : 0209\_1R

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 76. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 50  | RND   | 75.0            | 3.7      | -----               | 160.0  | -----                 | 160.0  |
| 51  | RND   | 50.0            | 2.5      | -----               | 160.0  | -----                 | 160.0  |
| 52  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 53  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 54  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 55  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 56  | RND   | 75.0            | 3.7      | -----               | 160.0  | -----                 | 160.0  |
| 57  | RND   | 50.0            | 2.5      | -----               | 160.0  | -----                 | 160.0  |
| 58  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 59  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 60  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 61  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 62  | RND   | 41.3            | 3.4      | -----               | 125.0  | -----                 | 125.0  |
| 63  | REC   | 22.5            | 1.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 64  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 65  | RND   | 22.5            | 2.9      | -----               | 100.0  | -----                 | 100.0  |
| 66  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 67  | RND   | 25.0            | 2.0      | -----               | 125.0  | -----                 | 125.0  |
| 68  | REC   | 22.0            | 1.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 69  | REC   | 22.0            | 1.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 70  | REC   | 22.0            | 1.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 71  | REC   | 11.0            | 0.5      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 72  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 73  | RND   | 11.0            | 1.4      | -----               | 100.0  | -----                 | 100.0  |
| 74  | REC   | 11.0            | 0.5      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 75  | REC   | 0.0             | 0.0      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 76  | RND   | 11.0            | 1.4      | -----               | 100.0  | -----                 | 100.0  |

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## PRESSURE LOSS DATA

System name : 0209\_1R

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Prepared by : G.O.C.

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 76.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0029       | 0.0300        | 0.0000          | 0.0329        |
| 2   | 0.0014      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0021        |
| 3   | 0.0011      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0024        |
| 4   | 0.0010      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0018        |
| 5   | 0.0026      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0036        |
| 6   | 0.0026      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0060        |
| 7   | 0.0000      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0011        |
| 8   | 0.0094      | 0.0000                    | 0.0000                | 0.0040       | 0.0000        | 0.0812          | 0.0946        |
| 9   | 0.0054      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0068        |
| 10  | 0.0021      | 0.0000                    | 0.0000                | 0.0050       | 0.0000        | 0.0000          | 0.0071        |
| 11  | 0.0030      | 0.0000                    | 0.0000                | 0.0055       | 0.0000        | 0.0000          | 0.0085        |
| 12  | 0.0019      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0037        |
| 13  | 0.0044      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0064        |
| 14  | 0.0011      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0277          | 0.0288        |
| 15  | 0.0115      | 0.0170                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0288        |
| 16  | 0.0064      | 0.0170                    | 0.0000                | 0.0003       | 0.0000        | 0.0115          | 0.0352        |
| 17  | 0.0019      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0112          | 0.0135        |
| 18  | 0.0010      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0023        |
| 19  | 0.0012      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0218          | 0.0230        |
| 20  | 0.0123      | 0.0100                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0230        |
| 21  | -0.0016     | 0.0100                    | 0.0000                | 0.0003       | 0.0000        | 0.0167          | 0.0253        |
| 22  | -0.0101     | 0.0030                    | 0.0000                | 0.0015       | 0.0000        | 0.0529          | 0.0473        |
| 23  | -0.0120     | 0.0030                    | 0.0000                | 0.0002       | 0.0000        | 0.0631          | 0.0544        |
| 24  | 0.0199      | 0.0000                    | 0.0000                | 0.0005       | 0.0190        | 0.0000          | 0.0394        |
| 25  | 0.0020      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0030        |
| 26  | 0.0065      | 0.0000                    | 0.0000                | 0.0040       | 0.0000        | 0.0098          | 0.0203        |
| 27  | 0.0007      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0029        |
| 28  | 0.0038      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0675          | 0.0717        |
| 29  | 0.0001      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0186          | 0.0187        |
| 30  | 0.0012      | 0.0170                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0187        |
| 31  | 0.0328      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0344        |
| 32  | 0.0078      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0085        |
| 33  | 0.0035      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0041        |
| 34  | 0.0020      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0026        |
| 35  | 0.0006      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0408        |
| 36  | 0.0025      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0007          | 0.0434        |
| 37  | 0.0027      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0045          | 0.0475        |
| 38  | 0.0078      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0084        |
| 39  | 0.0035      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0041        |
| 40  | 0.0020      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0026        |
| 41  | 0.0006      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0409        |
| 42  | 0.0025      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0006          | 0.0434        |
| 43  | 0.0027      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0045          | 0.0475        |
| 44  | 0.0024      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0599          | 0.0633        |
| 45  | 0.0011      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0288          | 0.0299        |
| 46  | 0.0116      | 0.0170                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0299        |
| 47  | 0.0047      | 0.0000                    | 0.0000                | 0.0032       | 0.0000        | 0.0000          | 0.0079        |
| 48  | 0.0048      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.1009          | 0.1056        |
| 49  | 0.0484      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0496        |
| 50  | 0.0078      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0001          | 0.0085        |



## PRESSURE LOSS DATA

System name : 0209\_1R

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Prepared by : G.O.C.

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 76. (Continued)

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 51  | 0.0035      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0041        |
| 52  | 0.0020      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0026        |
| 53  | 0.0006      | 0.0400                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0409        |
| 54  | 0.0025      | 0.0400                    | 0.0000                | 0.0004       | 0.0000        | 0.0007          | 0.0435        |
| 55  | 0.0027      | 0.0400                    | 0.0000                | 0.0004       | 0.0000        | 0.0045          | 0.0476        |
| 56  | 0.0078      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0085        |
| 57  | 0.0035      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0041        |
| 58  | 0.0020      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0026        |
| 59  | 0.0006      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0409        |
| 60  | 0.0025      | 0.0400                    | 0.0000                | 0.0003       | 0.0000        | 0.0007          | 0.0434        |
| 61  | 0.0027      | 0.0400                    | 0.0000                | 0.0004       | 0.0000        | 0.0045          | 0.0475        |
| 62  | -0.0074     | 0.0100                    | 0.0000                | 0.0040       | 0.0000        | 0.1099          | 0.1165        |
| 63  | -0.0145     | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.1611          | 0.1474        |
| 64  | 0.0003      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0206          | 0.0210        |
| 65  | 0.0034      | 0.0170                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0210        |
| 66  | -0.0157     | 0.0000                    | 0.0000                | 0.0004       | 0.0080        | 0.1596          | 0.1523        |
| 67  | 0.0008      | 0.0170                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0185        |
| 68  | 0.0046      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.1551          | 0.1603        |
| 69  | 0.0002      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0004        |
| 70  | 0.0002      | 0.0000                    | 0.0000                | 0.0002       | 0.0005        | 0.0000          | 0.0009        |
| 71  | 0.0000      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0001          | 0.0001        |
| 72  | 0.0001      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0110          | 0.0111        |
| 73  | 0.0008      | 0.0100                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0111        |
| 74  | 0.0000      | 0.0000                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0001        |
| 75  | 0.0001      | 0.0000                    | 0.0000                | 0.0000       | 0.0000        | 0.0110          | 0.0111        |
| 76  | 0.0008      | 0.0100                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0111        |

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## C-VALUE DATA

System name : 0209\_1R

21-06-24

Prepared by : G.O.C.

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 76.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance  |
|-----|-----|---------|-------------------|---------------|--------|--------|----------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.1438 | 1.4878 | 0.0000   |
| 2   | 1   | 0.0700  | 0.0000            | 0.0000        | 0.0361 | 0.0000 | 0.0000   |
| 3   | 2   | 0.0601  | 0.0000            | 0.0000        | 0.0747 | 0.0000 | 0.0000   |
| 4   | 3   | 0.0562  | 0.0000            | 0.0000        | 0.0510 | 0.0000 | 0.0000   |
| 5   | 4   | 0.1622  | 0.0000            | 0.0000        | 0.0593 | 0.0000 | 0.0000   |
| 6   | 5   | 0.1622  | 0.0000            | 0.0000        | 0.2051 | 0.0000 | 0.0000   |
| 7   | 6   | 0.0000  | 0.0000            | 0.0000        | 0.0657 | 0.0000 | 0.0000   |
| 8   | 7   | 0.5781  | 0.0000            | 0.0000        | 0.2110 | 0.0000 | 4.2794   |
| 9   | 8   | 0.2871  | 0.0000            | 0.0000        | 0.0725 | 0.0000 | 0.0000   |
| 10  | 9   | 0.1106  | 0.0000            | 0.0000        | 0.3026 | 0.0000 | 0.0000   |
| 11  | 10  | 0.1829  | 0.0000            | 0.0000        | 0.4312 | 0.0000 | 0.0000   |
| 12  | 11  | 0.1500  | 0.0000            | 0.0000        | 0.2142 | 0.0000 | 0.0000   |
| 13  | 12  | 0.5300  | 0.0000            | 0.0000        | 0.9726 | 0.0000 | 0.0000   |
| 14  | 13  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000   |
| 15  | 13  | 5.6000  | 3.7118            | 0.0000        | 0.0643 | 0.0000 | 0.0000   |
| 16  | 12  | 0.7800  | 3.7118            | 0.0000        | 0.0643 | 0.0000 | 2.5031   |
| 17  | 11  | 0.1500  | 0.0000            | 0.0000        | 0.1067 | 0.0000 | 3.1578   |
| 18  | 17  | 0.2844  | 0.0000            | 0.0000        | 0.6031 | 0.0000 | 0.0000   |
| 19  | 18  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000   |
| 20  | 18  | 5.6000  | 2.0422            | 0.0000        | 0.1412 | 0.0000 | 0.0000   |
| 21  | 17  | -0.4611 | 4.2506            | 0.0000        | 0.1238 | 0.0000 | 7.0949   |
| 22  | 10  | -0.6134 | 1.1767            | 0.0000        | 0.5810 | 0.0000 | 20.7638  |
| 23  | 9   | -0.6300 | 1.2752            | 0.0000        | 0.0927 | 0.0000 | 26.8392  |
| 24  | 7   | 1.2193  | 0.0000            | 0.0000        | 0.0435 | 1.6000 | 0.0000   |
| 25  | 24  | 0.1647  | 0.0000            | 0.0000        | 0.0729 | 0.0000 | 0.0000   |
| 26  | 25  | 0.4762  | 0.0000            | 0.0000        | 0.3856 | 0.0000 | 0.9526   |
| 27  | 26  | 0.0700  | 0.0000            | 0.0000        | 0.3266 | 0.0000 | 0.0000   |
| 28  | 27  | 0.5824  | 0.0000            | 0.0000        | 1.7367 | 0.0000 | 319.2812 |
| 29  | 28  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000   |
| 30  | 28  | 5.6000  | 9.7972            | 0.0000        | 0.2922 | 0.0000 | 0.0000   |
| 31  | 27  | 5.0176  | 0.0000            | 0.0000        | 0.1129 | 0.0000 | 0.0000   |
| 32  | 31  | 0.5600  | 0.0000            | 0.0000        | 0.0744 | 0.0000 | 0.0000   |
| 33  | 32  | 0.4067  | 0.0000            | 0.0000        | 0.1582 | 0.0000 | 0.0000   |
| 34  | 33  | 0.5300  | 0.0000            | 0.0000        | 0.2186 | 0.0000 | 0.0000   |
| 35  | 34  | 0.2200  | 15.6899           | 0.0000        | 0.1051 | 0.0000 | 0.0000   |
| 36  | 33  | 0.6512  | 15.6899           | 0.0000        | 0.1051 | 0.0000 | 0.2580   |
| 37  | 32  | 0.3141  | 15.6899           | 0.0000        | 0.1327 | 0.0000 | 1.7468   |
| 38  | 31  | 0.5600  | 0.0000            | 0.0000        | 0.0682 | 0.0000 | 0.0021   |
| 39  | 38  | 0.4067  | 0.0000            | 0.0000        | 0.1542 | 0.0000 | 0.0000   |
| 40  | 39  | 0.5300  | 0.0000            | 0.0000        | 0.2186 | 0.0000 | 0.0000   |
| 41  | 40  | 0.2200  | 15.6899           | 0.0000        | 0.1247 | 0.0000 | 0.0000   |
| 42  | 39  | 0.6512  | 15.6899           | 0.0000        | 0.1327 | 0.0000 | 0.2500   |
| 43  | 38  | 0.3141  | 15.6899           | 0.0000        | 0.1327 | 0.0000 | 1.7603   |
| 44  | 26  | 0.2300  | 0.0000            | 0.0000        | 0.5158 | 0.0000 | 29.0144  |
| 45  | 44  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000   |
| 46  | 44  | 5.6000  | 2.4493            | 0.0000        | 0.1922 | 0.0000 | 0.0000   |
| 47  | 25  | 0.3426  | 0.0000            | 0.0000        | 0.3689 | 0.0000 | 0.0000   |
| 48  | 47  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000 | 0.0000   |
| 49  | 47  | 5.6000  | 0.0000            | 0.0000        | 0.0862 | 0.0000 | 0.0000   |
| 50  | 49  | 0.5600  | 0.0000            | 0.0000        | 0.0627 | 0.0000 | 0.0108   |
| 51  | 50  | 0.4067  | 0.0000            | 0.0000        | 0.1542 | 0.0000 | 0.0000   |
| 52  | 51  | 0.5300  | 0.0000            | 0.0000        | 0.2186 | 0.0000 | 0.0000   |
| 53  | 52  | 0.2200  | 15.6899           | 0.0000        | 0.1471 | 0.0000 | 0.0000   |



## C-VALUE DATA

System name : 0209\_1R

21-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 76. (Continued)

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other   | Balance  |
|-----|-----|---------|-------------------|---------------|--------|---------|----------|
| 54  | 51  | 0.6512  | 15.6899           | 0.0000        | 0.1471 | 0.0000  | 0.2580   |
| 55  | 50  | 0.3141  | 15.6899           | 0.0000        | 0.1471 | 0.0000  | 1.7683   |
| 56  | 49  | 0.5600  | 0.0000            | 0.0000        | 0.0799 | 0.0000  | 0.0000   |
| 57  | 56  | 0.4067  | 0.0000            | 0.0000        | 0.1582 | 0.0000  | 0.0000   |
| 58  | 57  | 0.5300  | 0.0000            | 0.0000        | 0.2186 | 0.0000  | 0.0000   |
| 59  | 58  | 0.2200  | 15.6899           | 0.0000        | 0.1195 | 0.0000  | 0.0000   |
| 60  | 57  | 0.6512  | 15.6899           | 0.0000        | 0.1195 | 0.0000  | 0.2580   |
| 61  | 56  | 0.3141  | 15.6899           | 0.0000        | 0.1471 | 0.0000  | 1.7468   |
| 62  | 24  | -0.6266 | 1.4408            | 0.0000        | 0.5722 | 0.0000  | 15.8388  |
| 63  | 3   | -0.8300 | 0.0000            | 0.0000        | 1.3185 | 0.0000  | 262.2014 |
| 64  | 63  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000   |
| 65  | 63  | 5.6000  | 3.3720            | 0.0000        | 0.1051 | 0.0000  | 0.0000   |
| 66  | 2   | -0.8300 | 0.0000            | 0.0000        | 0.4904 | 10.5486 | 210.4703 |
| 67  | 66  | 0.3000  | 6.6682            | 0.0000        | 0.2717 | 0.0000  | 0.0000   |
| 68  | 1   | 0.2300  | 0.0000            | 0.0000        | 1.0198 | 0.0000  | 264.0486 |
| 69  | 68  | 0.4152  | 0.0000            | 0.0000        | 0.2968 | 0.0000  | 0.0000   |
| 70  | 69  | 0.4152  | 0.0000            | 0.0000        | 0.3254 | 0.8514  | 0.0000   |
| 71  | 70  | 0.0700  | 0.0000            | 0.0000        | 0.2166 | 0.0000  | 0.4698   |
| 72  | 71  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000   |
| 73  | 71  | 5.6000  | 8.2988            | 0.0000        | 0.1912 | 0.0000  | 0.0000   |
| 74  | 70  | 0.0700  | 0.0000            | 0.0000        | 0.6863 | 0.0000  | 0.0000   |
| 75  | 74  | 0.0000  | 0.0000            | 0.0000        | 0.0000 | 0.0000  | 0.0000   |
| 76  | 74  | 5.6000  | 8.2988            | 0.0000        | 0.1912 | 0.0000  | 0.0000   |

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## FAN DATA PRINTOUT

System name : 0209\_1R

21-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| -----   |             |             |
| Fan Airflow Rate .....                        | :           | 687.5 L/s   |
| Fan Static Pressure .....                     | :           | 0.1443 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.2058 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.2058 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.2058 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.2672 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| -----                       |   |             |
| Return System Loss .....    | : | -0.2058 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.2058 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| -----                         |   |            |
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| -----                     |   |                |
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## SIZE DATA

System name : 0210I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Shape | Airflow | Velocity | Metal |        | Airflow |        |
|-----|-------|---------|----------|-------|--------|---------|--------|
|     |       | Rate    |          | Width | Height | Width   | Height |
|     |       | L/s     | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 2   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 3   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 4   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 5   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 6   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 7   | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 8   | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 9   | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 10  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 11  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 12  | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 13  | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 14  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 15  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 16  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |

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PRESSURE LOSS DATA

System name : 0210I 26-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec   | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-------|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|       | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1     | 0.0000      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0010        |
| 2     | 0.0055      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0065        |
| 3     | 0.0055      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0071        |
| 4     | 0.0055      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0061        |
| 5     | 0.0055      | 0.0000                    | 0.0000                | 0.0030       | 0.0340        | 0.0000          | 0.0425        |
| 6     | 0.0055      | 0.0000                    | 0.0000                | 0.0036       | 0.0000        | 0.0000          | 0.0091        |
| 7     | 0.0060      | 0.0000                    | 0.0000                | 0.0029       | 0.0000        | 0.0000          | 0.0089        |
| 8     | 0.0039      | 0.0000                    | 0.0000                | 0.0029       | 0.0000        | 0.0000          | 0.0068        |
| 9     | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 10    | 0.0015      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5018        |
| 11    | 0.0052      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5055        |
| 12    | 0.0060      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0009          | 0.0090        |
| 13    | 0.0039      | 0.0000                    | 0.0000                | 0.0029       | 0.0000        | 0.0000          | 0.0068        |
| 14    | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 15    | 0.0015      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5017        |
| 16    | 0.0052      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5053        |
| ***** |             |                           |                       |              |               |                 |               |



## C-VALUE DATA

System name : 0210I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2645 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2645 | 0.0000            | 0.0000        | 0.0729 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2645 | 0.0000            | 0.0000        | 0.0268 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2645 | 0.0000            | 0.0000        | 0.1434 | 1.6265 | 0.0000  |
| 6   | 5   | 0.2645 | 0.0000            | 0.0000        | 0.1706 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2875 | 0.0000            | 0.0000        | 0.2171 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2942 | 0.0000            | 0.0000        | 0.2174 | 0.0000 | 0.0000  |
| 9   | 8   | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 10  | 9   | 0.3145 | 103.8182          | 0.0000        | 0.0586 | 0.0000 | 0.0000  |
| 11  | 8   | 0.3867 | 103.8182          | 0.0000        | 0.0586 | 0.0000 | 0.0000  |
| 12  | 6   | 0.2875 | 0.0000            | 0.0000        | 0.1560 | 0.0000 | 0.0707  |
| 13  | 12  | 0.2942 | 0.0000            | 0.0000        | 0.2174 | 0.0000 | 0.0000  |
| 14  | 13  | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 15  | 14  | 0.3145 | 103.8182          | 0.0000        | 0.0319 | 0.0000 | 0.0000  |
| 16  | 13  | 0.3867 | 103.8182          | 0.0000        | 0.0319 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0210I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 700.0 L/s  |
| Fan Static Pressure .....                     | :           | 0.5321 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.5935 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.5935 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.5935 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.5321 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.5935 kPa |
| Total Downstream Losses ..... | : | 0.5935 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0210I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.5935            | 0.5726             | 5.8      | 0.0209               | 15.0987 E+04       |
| 2   | 0.5925            | 0.5716             | 5.8      | 0.0209               | 15.0987 E+04       |
| 3   | 0.5860            | 0.5651             | 5.8      | 0.0209               | 15.0987 E+04       |
| 4   | 0.5789            | 0.5580             | 5.8      | 0.0209               | 15.0987 E+04       |
| 5   | 0.5728            | 0.5519             | 5.8      | 0.0209               | 15.0987 E+04       |
| 6   | 0.5303            | 0.5094             | 5.8      | 0.0209               | 15.0987 E+04       |
| 7   | 0.5212            | 0.5078             | 4.7      | 0.0134               | 9.5640 E+04        |
| 8   | 0.5123            | 0.4989             | 4.7      | 0.0134               | 9.5640 E+04        |
| 9   | 0.5041            | 0.4993             | 2.8      | 0.0048               | 5.2439 E+04        |
| 10  | 0.5018            | 0.4970             | 2.8      | 0.0048               | 5.2439 E+04        |
| 11  | 0.5055            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |
| 12  | 0.5203            | 0.5069             | 4.7      | 0.0134               | 9.5640 E+04        |
| 13  | 0.5122            | 0.4988             | 4.7      | 0.0134               | 9.5640 E+04        |
| 14  | 0.5040            | 0.4992             | 2.8      | 0.0048               | 5.2439 E+04        |
| 15  | 0.5017            | 0.4969             | 2.8      | 0.0048               | 5.2439 E+04        |
| 16  | 0.5053            | 0.5005             | 2.8      | 0.0048               | 5.2439 E+04        |

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## SIZE DATA

System name : 0210R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 6   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 7   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 8   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 9   | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 10  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 11  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 12  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 13  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 14  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 15  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 16  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 17  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 18  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 19  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 20  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 21  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 22  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 23  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 24  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 25  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 26  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 27  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 28  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 29  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 30  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 31  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 32  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 33  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 34  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## PRESSURE LOSS DATA

System name : 0210R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 2   | 0.0045      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0054        |
| 3   | 0.0045      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0058        |
| 4   | 0.0045      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0050        |
| 5   | 0.0045      | 0.0000                    | 0.0000                | 0.0025       | 0.0280        | 0.0000          | 0.0350        |
| 6   | 0.0045      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0063        |
| 7   | 0.0027      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0036        |
| 8   | 0.0027      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0037        |
| 9   | 0.0032      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0013          | 0.0070        |
| 10  | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 11  | 0.0057      | 0.0000                    | 0.0000                | 0.0053       | 0.0000        | 0.0000          | 0.0111        |
| 12  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 13  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 14  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 15  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 16  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 17  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0090          | 0.0156        |
| 18  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 19  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 20  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 21  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 22  | 0.0032      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0045        |
| 23  | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 24  | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 25  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 26  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 27  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 28  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 29  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 30  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 31  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 32  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 33  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 34  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |

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## C-VALUE DATA

System name : 0210R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2680  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2680  | 0.0000            | 0.0000        | 0.0737 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2680  | 0.0000            | 0.0000        | 0.0271 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2680  | 0.0000            | 0.0000        | 0.1450 | 1.6533 | 0.0000  |
| 6   | 5   | 0.2680  | 0.0000            | 0.0000        | 0.1049 | 0.0000 | 0.0000  |
| 7   | 6   | 0.1608  | 0.0000            | 0.0000        | 0.0515 | 0.0000 | 0.0000  |
| 8   | 7   | 0.1608  | 0.0000            | 0.0000        | 0.0577 | 0.0000 | 0.0000  |
| 9   | 8   | 0.1900  | 0.0000            | 0.0000        | 0.2303 | 0.0000 | 0.1228  |
| 10  | 9   | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 11  | 10  | 0.5300  | 0.0000            | 0.0000        | 0.4931 | 0.0000 | 0.0000  |
| 12  | 11  | 0.3529  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 0.0000  |
| 13  | 12  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 14  | 13  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 15  | 14  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 16  | 13  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 17  | 10  | 0.5500  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 0.8260  |
| 18  | 17  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 19  | 18  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 20  | 19  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 21  | 18  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 22  | 8   | 0.1900  | 0.0000            | 0.0000        | 0.1173 | 0.0000 | 0.0000  |
| 23  | 22  | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 24  | 23  | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 25  | 24  | 0.3529  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 0.0000  |
| 26  | 25  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 27  | 26  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 28  | 27  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 29  | 26  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 30  | 23  | 0.5500  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 1.0579  |
| 31  | 30  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 32  | 31  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 33  | 32  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 34  | 31  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |

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## FAN DATA PRINTOUT

System name : 0210R 26-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| -----   |             |             |
| Fan Airflow Rate .....                        | :           | 630.1 L/s   |
| Fan Static Pressure .....                     | :           | 0.0632 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1247 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1247 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1247 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1861 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| -----                       |   |             |
| Return System Loss .....    | : | -0.1247 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1247 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| -----                         |   |            |
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| -----                     |   |                |
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| -----                     |   |                |

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## PRESSURE LOSS DATA II

System name : 0210R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1247           | -0.1416            | 5.3      | 0.0169               | 13.5906 E+04       |
| 2   | -0.1239           | -0.1408            | 5.3      | 0.0169               | 13.5906 E+04       |
| 3   | -0.1185           | -0.1354            | 5.3      | 0.0169               | 13.5906 E+04       |
| 4   | -0.1127           | -0.1296            | 5.3      | 0.0169               | 13.5906 E+04       |
| 5   | -0.1077           | -0.1247            | 5.3      | 0.0169               | 13.5906 E+04       |
| 6   | -0.0727           | -0.0897            | 5.3      | 0.0169               | 13.5906 E+04       |
| 7   | -0.0664           | -0.0833            | 5.3      | 0.0169               | 13.5906 E+04       |
| 8   | -0.0628           | -0.0797            | 5.3      | 0.0169               | 13.5906 E+04       |
| 9   | -0.0578           | -0.0686            | 4.2      | 0.0108               | 8.6087 E+04        |
| 10  | -0.0521           | -0.0629            | 4.2      | 0.0108               | 8.6087 E+04        |
| 11  | -0.0479           | -0.0588            | 4.2      | 0.0108               | 6.0446 E+04        |
| 12  | -0.0368           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 13  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 14  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 15  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 16  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 17  | -0.0390           | -0.0498            | 4.2      | 0.0108               | 6.0446 E+04        |
| 18  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 19  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 20  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 21  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 22  | -0.0591           | -0.0699            | 4.2      | 0.0108               | 8.6087 E+04        |
| 23  | -0.0546           | -0.0655            | 4.2      | 0.0108               | 8.6087 E+04        |
| 24  | -0.0505           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 25  | -0.0369           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 26  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 27  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 28  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 29  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 30  | -0.0390           | -0.0499            | 4.2      | 0.0108               | 6.0446 E+04        |
| 31  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 32  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 33  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 34  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |

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## SIZE DATA

System name : 0211I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Shape | Airflow | Velocity | Metal |        | Airflow |        |
|-----|-------|---------|----------|-------|--------|---------|--------|
|     |       | Rate    |          | Width | Height | Width   | Height |
|     |       | L/s     | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 2   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 3   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 4   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 5   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 6   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 7   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 8   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 9   | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 10  | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 11  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 12  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 13  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 14  | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 15  | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 16  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 17  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 18  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |

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## PRESSURE LOSS DATA

System name : 0211I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0010        |
| 2   | 0.0055      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0065        |
| 3   | 0.0055      | 0.0000                    | 0.0000                | 0.0037       | 0.0000        | 0.0000          | 0.0092        |
| 4   | 0.0055      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0084        |
| 5   | 0.0055      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0066        |
| 6   | 0.0033      | 0.0000                    | 0.0000                | 0.0029       | 0.0000        | 0.0000          | 0.0062        |
| 7   | 0.0033      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0048        |
| 8   | 0.0055      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0083        |
| 9   | 0.0060      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0024          | 0.0094        |
| 10  | 0.0039      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0048        |
| 11  | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 12  | 0.0015      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5018        |
| 13  | 0.0052      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5055        |
| 14  | 0.0060      | 0.0000                    | 0.0000                | 0.0035       | 0.0000        | 0.0000          | 0.0095        |
| 15  | 0.0039      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0048        |
| 16  | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 17  | 0.0015      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5017        |
| 18  | 0.0052      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5053        |

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## C-VALUE DATA

System name : 0211I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2645 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2645 | 0.0000            | 0.0000        | 0.1756 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2645 | 0.0000            | 0.0000        | 0.1355 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2645 | 0.0000            | 0.0000        | 0.0497 | 0.0000 | 0.0000  |
| 6   | 5   | 0.1587 | 0.0000            | 0.0000        | 0.1389 | 0.0000 | 0.0000  |
| 7   | 6   | 0.1587 | 0.0000            | 0.0000        | 0.0690 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2645 | 0.0000            | 0.0000        | 0.1322 | 0.0000 | 0.0000  |
| 9   | 8   | 0.2875 | 0.0000            | 0.0000        | 0.0786 | 0.0000 | 0.1766  |
| 10  | 9   | 0.2942 | 0.0000            | 0.0000        | 0.0673 | 0.0000 | 0.0000  |
| 11  | 10  | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 12  | 11  | 0.3145 | 103.8182          | 0.0000        | 0.0592 | 0.0000 | 0.0000  |
| 13  | 10  | 0.3867 | 103.8182          | 0.0000        | 0.0592 | 0.0000 | 0.0000  |
| 14  | 8   | 0.2875 | 0.0000            | 0.0000        | 0.2633 | 0.0000 | 0.0000  |
| 15  | 14  | 0.2942 | 0.0000            | 0.0000        | 0.0673 | 0.0000 | 0.0000  |
| 16  | 15  | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 17  | 16  | 0.3145 | 103.8182          | 0.0000        | 0.0366 | 0.0000 | 0.0000  |
| 18  | 15  | 0.3867 | 103.8182          | 0.0000        | 0.0366 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0211I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 700.0 L/s  |
| Fan Static Pressure .....                     | :           | 0.5092 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.5706 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.5706 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.5706 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.5092 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.5706 kPa |
| Total Downstream Losses ..... | : | 0.5706 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0211I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.5706            | 0.5497             | 5.8      | 0.0209               | 15.0987 E+04       |
| 2   | 0.5696            | 0.5487             | 5.8      | 0.0209               | 15.0987 E+04       |
| 3   | 0.5631            | 0.5422             | 5.8      | 0.0209               | 15.0987 E+04       |
| 4   | 0.5539            | 0.5330             | 5.8      | 0.0209               | 15.0987 E+04       |
| 5   | 0.5456            | 0.5247             | 5.8      | 0.0209               | 15.0987 E+04       |
| 6   | 0.5390            | 0.5181             | 5.8      | 0.0209               | 15.0987 E+04       |
| 7   | 0.5328            | 0.5119             | 5.8      | 0.0209               | 15.0987 E+04       |
| 8   | 0.5280            | 0.5071             | 5.8      | 0.0209               | 15.0987 E+04       |
| 9   | 0.5174            | 0.5040             | 4.7      | 0.0134               | 9.5640 E+04        |
| 10  | 0.5103            | 0.4969             | 4.7      | 0.0134               | 9.5640 E+04        |
| 11  | 0.5041            | 0.4993             | 2.8      | 0.0048               | 5.2439 E+04        |
| 12  | 0.5018            | 0.4970             | 2.8      | 0.0048               | 5.2439 E+04        |
| 13  | 0.5055            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |
| 14  | 0.5197            | 0.5063             | 4.7      | 0.0134               | 9.5640 E+04        |
| 15  | 0.5102            | 0.4968             | 4.7      | 0.0134               | 9.5640 E+04        |
| 16  | 0.5040            | 0.4992             | 2.8      | 0.0048               | 5.2439 E+04        |
| 17  | 0.5017            | 0.4969             | 2.8      | 0.0048               | 5.2439 E+04        |
| 18  | 0.5053            | 0.5005             | 2.8      | 0.0048               | 5.2439 E+04        |

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## SIZE DATA

System name : 0211R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Shape | Airflow<br>Rate | Velocity | Metal |        | Airflow |        |
|-----|-------|-----------------|----------|-------|--------|---------|--------|
|     |       |                 |          | Width | Height | Width   | Height |
|     |       | L/s             | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 2   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 3   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 4   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 5   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 6   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 7   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 8   | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 9   | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 10  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 11  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 12  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 13  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 14  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 15  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 16  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 17  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 18  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 19  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 20  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 21  | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 22  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 23  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 24  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 25  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 26  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 27  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 28  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 29  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 30  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 31  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 32  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |

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## PRESSURE LOSS DATA

System name : 0211R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 2   | 0.0045      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0054        |
| 3   | 0.0045      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0075        |
| 4   | 0.0045      | 0.0000                    | 0.0000                | 0.0023       | 0.0280        | 0.0000          | 0.0349        |
| 5   | 0.0045      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0061        |
| 6   | 0.0027      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0053        |
| 7   | 0.0027      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0033        |
| 8   | 0.0090      | 0.0000                    | 0.0000                | 0.0038       | 0.0000        | 0.0000          | 0.0127        |
| 9   | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 10  | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 11  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 12  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 13  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 14  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 15  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 16  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 17  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 18  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 19  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 20  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 21  | 0.0093      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0068          | 0.0169        |
| 22  | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 23  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 24  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 25  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 26  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 27  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 28  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 29  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 30  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 31  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 32  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |

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## C-VALUE DATA

System name : 0211R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2680  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2680  | 0.0000            | 0.0000        | 0.1776 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2680  | 0.0000            | 0.0000        | 0.1370 | 1.6533 | 0.0000  |
| 5   | 4   | 0.2680  | 0.0000            | 0.0000        | 0.0894 | 0.0000 | 0.0000  |
| 6   | 5   | 0.1608  | 0.0000            | 0.0000        | 0.1550 | 0.0000 | 0.0000  |
| 7   | 6   | 0.1608  | 0.0000            | 0.0000        | 0.0321 | 0.0000 | 0.0000  |
| 8   | 7   | 0.5300  | 0.0000            | 0.0000        | 0.3475 | 0.0000 | 0.0000  |
| 9   | 8   | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 10  | 9   | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3529  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 0.0000  |
| 12  | 11  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 13  | 12  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 14  | 13  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 15  | 12  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 16  | 9   | 0.5500  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 1.0579  |
| 17  | 16  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 18  | 17  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 20  | 17  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 21  | 7   | 0.5500  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.6229  |
| 22  | 21  | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 23  | 22  | 0.3529  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 25  | 24  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 26  | 25  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 27  | 24  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 28  | 21  | 0.5500  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 1.0579  |
| 29  | 28  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 30  | 29  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 31  | 30  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 32  | 29  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |

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## FAN DATA PRINTOUT

System name : 0211R 26-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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## Fan Selection Parameters (Return System)

```

-----
Fan Airflow Rate ..... :      630.1 L/s
Fan Static Pressure ..... :      0.0692 kPa
-----
Total Pressure Difference Across Fan ..... :      0.1306 kPa
Static Pressure Difference Across Fan ..... :      0.1306 kPa
Velocity Pressure Difference Across Fan ..... :      0.0000 kPa
-----
Fan Inlet / Outlet Data                At Inlet                At Outlet
-----
Total Pressure ..... :      -0.1306 kPa      0.0000 kPa
Static Pressure ..... :      -0.1920 kPa     -0.0614 kPa
Velocity Pressure ..... :      0.0614 kPa      0.0614 kPa
Velocity ..... :      10.0 m/s      10.0 m/s
-----

```

## Losses Upstream of Fan

```

-----
Return System Loss ..... :      -0.1306 kPa
Filter Loss ..... :      0.0000 kPa
Other Upstream Losses ..... :      0.0000 kPa
Total Upstream Losses ..... :      -0.1306 kPa
-----

```

## Losses Downstream of Fan

```

-----
Filter Loss ..... :      0.0000 kPa
Other Downstream Losses ..... :      0.0000 kPa
Total Downstream Losses ..... :      0.0000 kPa
-----

```

## Psychrometric Properties

```

-----
Altitude ..... :      0.0 m
Temperature ..... :      12.8 C
Relative Humidity ..... :      100.0 %
Density ..... :      1.2296 kg/cu m
Viscosity ..... :      0.0040 sqm/s
Barometric Pressure ..... :      101.3260 kPa
Vapor Pressure ..... :      1.4734 kPa
-----
*****

```



## PRESSURE LOSS DATA II

System name : 0211R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1306           | -0.1475            | 5.3      | 0.0169               | 13.5906 E+04       |
| 2   | -0.1298           | -0.1467            | 5.3      | 0.0169               | 13.5906 E+04       |
| 3   | -0.1244           | -0.1414            | 5.3      | 0.0169               | 13.5906 E+04       |
| 4   | -0.1169           | -0.1338            | 5.3      | 0.0169               | 13.5906 E+04       |
| 5   | -0.0820           | -0.0990            | 5.3      | 0.0169               | 13.5906 E+04       |
| 6   | -0.0760           | -0.0929            | 5.3      | 0.0169               | 13.5906 E+04       |
| 7   | -0.0706           | -0.0876            | 5.3      | 0.0169               | 13.5906 E+04       |
| 8   | -0.0674           | -0.0782            | 4.2      | 0.0108               | 8.6087 E+04        |
| 9   | -0.0546           | -0.0655            | 4.2      | 0.0108               | 8.6087 E+04        |
| 10  | -0.0505           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 11  | -0.0369           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 12  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 13  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 14  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 15  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 16  | -0.0390           | -0.0499            | 4.2      | 0.0108               | 6.0446 E+04        |
| 17  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 18  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 19  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 20  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 21  | -0.0606           | -0.0714            | 4.2      | 0.0108               | 8.6087 E+04        |
| 22  | -0.0504           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 23  | -0.0368           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 24  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 25  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 26  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 27  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 28  | -0.0390           | -0.0498            | 4.2      | 0.0108               | 6.0446 E+04        |
| 29  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 30  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 31  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 32  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |

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## SIZE DATA

System name : 0212I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 6   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 7   | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 8   | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 9   | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 10  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 11  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 12  | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 13  | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 14  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 15  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 16  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |

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## PRESSURE LOSS DATA

System name : 0212I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0010        |
| 2   | 0.0055      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0065        |
| 3   | 0.0055      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0078        |
| 4   | 0.0055      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0063        |
| 5   | 0.0055      | 0.0000                    | 0.0000                | 0.0030       | 0.0340        | 0.0000          | 0.0425        |
| 6   | 0.0055      | 0.0000                    | 0.0000                | 0.0039       | 0.0000        | 0.0000          | 0.0094        |
| 7   | 0.0060      | 0.0000                    | 0.0000                | 0.0029       | 0.0000        | 0.0000          | 0.0089        |
| 8   | 0.0039      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0066        |
| 9   | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 10  | 0.0015      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5017        |
| 11  | 0.0052      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5054        |
| 12  | 0.0060      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0089        |
| 13  | 0.0039      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0066        |
| 14  | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 15  | 0.0015      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5017        |
| 16  | 0.0052      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5054        |

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## C-VALUE DATA

System name : 0212I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2645 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2645 | 0.0000            | 0.0000        | 0.1104 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2645 | 0.0000            | 0.0000        | 0.0390 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2645 | 0.0000            | 0.0000        | 0.1434 | 1.6265 | 0.0000  |
| 6   | 5   | 0.2645 | 0.0000            | 0.0000        | 0.1862 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2875 | 0.0000            | 0.0000        | 0.2160 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2942 | 0.0000            | 0.0000        | 0.1958 | 0.0000 | 0.0000  |
| 9   | 8   | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 10  | 9   | 0.3145 | 103.8182          | 0.0000        | 0.0430 | 0.0000 | 0.0000  |
| 11  | 8   | 0.3867 | 103.8182          | 0.0000        | 0.0430 | 0.0000 | 0.0000  |
| 12  | 6   | 0.2875 | 0.0000            | 0.0000        | 0.1185 | 0.0000 | 0.0972  |
| 13  | 12  | 0.2942 | 0.0000            | 0.0000        | 0.1958 | 0.0000 | 0.0000  |
| 14  | 13  | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 15  | 14  | 0.3145 | 103.8182          | 0.0000        | 0.0437 | 0.0000 | 0.0000  |
| 16  | 13  | 0.3867 | 103.8182          | 0.0000        | 0.0437 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0212I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 700.0 L/s  |
| Fan Static Pressure .....                     | :           | 0.5331 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.5945 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.5945 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.5945 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.5331 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.5945 kPa |
| Total Downstream Losses ..... | : | 0.5945 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0212I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.5945            | 0.5736             | 5.8      | 0.0209               | 15.0987 E+04       |
| 2   | 0.5935            | 0.5726             | 5.8      | 0.0209               | 15.0987 E+04       |
| 3   | 0.5870            | 0.5661             | 5.8      | 0.0209               | 15.0987 E+04       |
| 4   | 0.5791            | 0.5582             | 5.8      | 0.0209               | 15.0987 E+04       |
| 5   | 0.5728            | 0.5519             | 5.8      | 0.0209               | 15.0987 E+04       |
| 6   | 0.5303            | 0.5094             | 5.8      | 0.0209               | 15.0987 E+04       |
| 7   | 0.5208            | 0.5075             | 4.7      | 0.0134               | 9.5640 E+04        |
| 8   | 0.5119            | 0.4986             | 4.7      | 0.0134               | 9.5640 E+04        |
| 9   | 0.5040            | 0.4992             | 2.8      | 0.0048               | 5.2439 E+04        |
| 10  | 0.5017            | 0.4969             | 2.8      | 0.0048               | 5.2439 E+04        |
| 11  | 0.5054            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |
| 12  | 0.5195            | 0.5062             | 4.7      | 0.0134               | 9.5640 E+04        |
| 13  | 0.5119            | 0.4986             | 4.7      | 0.0134               | 9.5640 E+04        |
| 14  | 0.5040            | 0.4992             | 2.8      | 0.0048               | 5.2439 E+04        |
| 15  | 0.5017            | 0.4969             | 2.8      | 0.0048               | 5.2439 E+04        |
| 16  | 0.5054            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |

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## SIZE DATA

System name : 0212R

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 6   | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 7   | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 8   | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 9   | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 10  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 11  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 12  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 13  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 14  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 15  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 16  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 17  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 18  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 19  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 20  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 21  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 22  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 23  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 24  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 25  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 26  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 27  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 28  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 29  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 30  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## PRESSURE LOSS DATA

System name : 0212R

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0032       | 0.0000        | 0.0000          | 0.0032        |
| 2   | 0.0045      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0057        |
| 3   | 0.0045      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0070        |
| 4   | 0.0045      | 0.0000                    | 0.0000                | 0.0034       | 0.0280        | 0.0000          | 0.0359        |
| 5   | 0.0032      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0007          | 0.0056        |
| 6   | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 7   | 0.0057      | 0.0000                    | 0.0000                | 0.0075       | 0.0000        | 0.0000          | 0.0133        |
| 8   | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 9   | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 10  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 11  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 12  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 13  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0111          | 0.0178        |
| 14  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 15  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 16  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 17  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 18  | 0.0032      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0053        |
| 19  | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 20  | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 21  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 22  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 23  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 24  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 25  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 26  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 27  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 28  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 29  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 30  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |

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## C-VALUE DATA

System name : 0212R

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.1886 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2680  | 0.0000            | 0.0000        | 0.0684 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2680  | 0.0000            | 0.0000        | 0.1450 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2680  | 0.0000            | 0.0000        | 0.1990 | 1.6533 | 0.0000  |
| 5   | 4   | 0.1900  | 0.0000            | 0.0000        | 0.1595 | 0.0000 | 0.0637  |
| 6   | 5   | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 7   | 6   | 0.5300  | 0.0000            | 0.0000        | 0.6938 | 0.0000 | 0.0000  |
| 8   | 7   | 0.3529  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 0.0000  |
| 9   | 8   | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 10  | 9   | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 12  | 9   | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 13  | 6   | 0.5500  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 1.0267  |
| 14  | 13  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 15  | 14  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 16  | 15  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 17  | 14  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 18  | 4   | 0.1900  | 0.0000            | 0.0000        | 0.1881 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 20  | 19  | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 21  | 20  | 0.3529  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 0.0000  |
| 22  | 21  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 23  | 22  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 25  | 22  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 26  | 19  | 0.5500  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 1.0579  |
| 27  | 26  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 28  | 27  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 29  | 28  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 30  | 27  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |

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## FAN DATA PRINTOUT

System name : 0212R 27-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 630.1 L/s   |
| Fan Static Pressure .....                     | :           | 0.0502 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1117 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1117 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1117 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1731 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.1117 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1117 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0212R

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 30.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1117           | -0.1286            | 5.3      | 0.0169               | 13.5906 E+04       |
| 2   | -0.1085           | -0.1254            | 5.3      | 0.0169               | 13.5906 E+04       |
| 3   | -0.1028           | -0.1197            | 5.3      | 0.0169               | 13.5906 E+04       |
| 4   | -0.0958           | -0.1127            | 5.3      | 0.0169               | 13.5906 E+04       |
| 5   | -0.0592           | -0.0700            | 4.2      | 0.0108               | 8.6087 E+04        |
| 6   | -0.0542           | -0.0651            | 4.2      | 0.0108               | 8.6087 E+04        |
| 7   | -0.0501           | -0.0609            | 4.2      | 0.0108               | 6.0446 E+04        |
| 8   | -0.0368           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 9   | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 10  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 11  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 12  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 13  | -0.0390           | -0.0498            | 4.2      | 0.0108               | 6.0446 E+04        |
| 14  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 15  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 16  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 17  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 18  | -0.0599           | -0.0707            | 4.2      | 0.0108               | 8.6087 E+04        |
| 19  | -0.0546           | -0.0655            | 4.2      | 0.0108               | 8.6087 E+04        |
| 20  | -0.0505           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 21  | -0.0369           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 22  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 23  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 24  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 25  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 26  | -0.0390           | -0.0499            | 4.2      | 0.0108               | 6.0446 E+04        |
| 27  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 28  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 29  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 30  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |

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## SIZE DATA

System name : 0213I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 14.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----><br>Width | Height | <----- Airflow -----><br>Width | Height |
|-----|-------|-----------------|----------|------------------------------|--------|--------------------------------|--------|
|     |       | L/s             | m/s      | mm                           | mm     | mm                             | mm     |
| 1   | REC   | 700.0           | 5.8      | 400.0                        | 300.0  | 400.0                          | 300.0  |
| 2   | REC   | 700.0           | 5.8      | 400.0                        | 300.0  | 400.0                          | 300.0  |
| 3   | REC   | 700.0           | 5.8      | 400.0                        | 300.0  | 400.0                          | 300.0  |
| 4   | REC   | 700.0           | 5.8      | 400.0                        | 300.0  | 400.0                          | 300.0  |
| 5   | REC   | 700.0           | 5.8      | 400.0                        | 300.0  | 400.0                          | 300.0  |
| 6   | REC   | 350.0           | 4.7      | 300.0                        | 250.0  | 300.0                          | 250.0  |
| 7   | REC   | 350.0           | 4.7      | 300.0                        | 250.0  | 300.0                          | 250.0  |
| 8   | REC   | 175.0           | 2.8      | 250.0                        | 250.0  | 250.0                          | 250.0  |
| 9   | REC   | 175.0           | 2.8      | 250.0                        | 250.0  | 250.0                          | 250.0  |
| 10  | REC   | 175.0           | 2.8      | 250.0                        | 250.0  | 250.0                          | 250.0  |
| 11  | REC   | 350.0           | 4.7      | 300.0                        | 250.0  | 300.0                          | 250.0  |
| 12  | REC   | 175.0           | 2.8      | 250.0                        | 250.0  | 250.0                          | 250.0  |
| 13  | REC   | 175.0           | 2.8      | 250.0                        | 250.0  | 250.0                          | 250.0  |
| 14  | REC   | 175.0           | 2.8      | 250.0                        | 250.0  | 250.0                          | 250.0  |

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## PRESSURE LOSS DATA

System name : 0213I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 14.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0011        |
| 2   | 0.0055      | 0.0000                    | 0.0000                | 0.0037       | 0.0340        | 0.0000          | 0.0432        |
| 3   | 0.0055      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0085        |
| 4   | 0.0055      | 0.0000                    | 0.0000                | 0.0040       | 0.0000        | 0.0000          | 0.0095        |
| 5   | 0.0055      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0073        |
| 6   | 0.0011      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0014          | 0.0059        |
| 7   | 0.0039      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0065        |
| 8   | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0036        |
| 9   | 0.0015      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5018        |
| 10  | 0.0052      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5054        |
| 11  | 0.0098      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0124        |
| 12  | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 13  | 0.0015      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5017        |
| 14  | 0.0052      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5054        |

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## C-VALUE DATA

System name : 0213I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. C-VALUE DATA FOR SECTIONS 1 THROUGH 14.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0537 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2645 | 0.0000            | 0.0000        | 0.1749 | 1.6265 | 0.0000  |
| 3   | 2   | 0.2645 | 0.0000            | 0.0000        | 0.1434 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2645 | 0.0000            | 0.0000        | 0.1898 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2645 | 0.0000            | 0.0000        | 0.0840 | 0.0000 | 0.0000  |
| 6   | 5   | 0.0525 | 0.0000            | 0.0000        | 0.2496 | 0.0000 | 0.1061  |
| 7   | 6   | 0.2942 | 0.0000            | 0.0000        | 0.1909 | 0.0000 | 0.0000  |
| 8   | 7   | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2727  |
| 9   | 8   | 0.3145 | 103.8182          | 0.0000        | 0.0517 | 0.0000 | 0.0000  |
| 10  | 7   | 0.3867 | 103.8182          | 0.0000        | 0.0469 | 0.0000 | 0.0000  |
| 11  | 5   | 0.4700 | 0.0000            | 0.0000        | 0.1909 | 0.0000 | 0.0000  |
| 12  | 11  | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 13  | 12  | 0.3145 | 103.8182          | 0.0000        | 0.0403 | 0.0000 | 0.0000  |
| 14  | 11  | 0.3867 | 103.8182          | 0.0000        | 0.0403 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0213I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 700.0 L/s  |
| Fan Static Pressure .....                     | :           | 0.5259 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.5874 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.5874 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.5874 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.5259 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.5874 kPa |
| Total Downstream Losses ..... | : | 0.5874 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0213I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 14.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.5874            | 0.5665             | 5.8      | 0.0209               | 15.0987 E+04       |
| 2   | 0.5862            | 0.5653             | 5.8      | 0.0209               | 15.0987 E+04       |
| 3   | 0.5431            | 0.5222             | 5.8      | 0.0209               | 15.0987 E+04       |
| 4   | 0.5345            | 0.5136             | 5.8      | 0.0209               | 15.0987 E+04       |
| 5   | 0.5250            | 0.5041             | 5.8      | 0.0209               | 15.0987 E+04       |
| 6   | 0.5163            | 0.5029             | 4.7      | 0.0134               | 9.5640 E+04        |
| 7   | 0.5119            | 0.4985             | 4.7      | 0.0134               | 9.5640 E+04        |
| 8   | 0.5041            | 0.4993             | 2.8      | 0.0048               | 5.2439 E+04        |
| 9   | 0.5018            | 0.4969             | 2.8      | 0.0048               | 5.2439 E+04        |
| 10  | 0.5054            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |
| 11  | 0.5177            | 0.5044             | 4.7      | 0.0134               | 9.5640 E+04        |
| 12  | 0.5040            | 0.4992             | 2.8      | 0.0048               | 5.2439 E+04        |
| 13  | 0.5017            | 0.4969             | 2.8      | 0.0048               | 5.2439 E+04        |
| 14  | 0.5054            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |

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## SIZE DATA

System name : 0213R

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Shape | Airflow<br>Rate | Velocity | Metal |        | Airflow |        |
|-----|-------|-----------------|----------|-------|--------|---------|--------|
|     |       |                 |          | Width | Height | Width   | Height |
|     |       | L/s             | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 2   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 3   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 4   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 5   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 6   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 7   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 8   | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 9   | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 10  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 11  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 12  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 13  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 14  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 15  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 16  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 17  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 18  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 19  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 20  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 21  | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 22  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 23  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 24  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 25  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 26  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 27  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 28  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 29  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 30  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 31  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 32  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |

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## PRESSURE LOSS DATA

System name : 0213R

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 2   | 0.0045      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0054        |
| 3   | 0.0045      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0055        |
| 4   | 0.0045      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0075        |
| 5   | 0.0045      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0070        |
| 6   | 0.0045      | 0.0000                    | 0.0000                | 0.0034       | 0.0280        | 0.0000          | 0.0359        |
| 7   | 0.0045      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0063        |
| 8   | 0.0090      | 0.0000                    | 0.0000                | 0.0038       | 0.0000        | 0.0000          | 0.0127        |
| 9   | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 10  | 0.0057      | 0.0000                    | 0.0000                | 0.0075       | 0.0000        | 0.0000          | 0.0133        |
| 11  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 12  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 13  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 14  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 15  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 16  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0111          | 0.0178        |
| 17  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 18  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 19  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 20  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 21  | 0.0093      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0063          | 0.0165        |
| 22  | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 23  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 24  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 25  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 26  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 27  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 28  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 29  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 30  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 31  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 32  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |

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## C-VALUE DATA

System name : 0213R

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2680  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2680  | 0.0000            | 0.0000        | 0.0543 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2680  | 0.0000            | 0.0000        | 0.1768 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2680  | 0.0000            | 0.0000        | 0.1450 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2680  | 0.0000            | 0.0000        | 0.1990 | 1.6533 | 0.0000  |
| 7   | 6   | 0.2680  | 0.0000            | 0.0000        | 0.1036 | 0.0000 | 0.0000  |
| 8   | 7   | 0.5300  | 0.0000            | 0.0000        | 0.3475 | 0.0000 | 0.0000  |
| 9   | 8   | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 10  | 9   | 0.5300  | 0.0000            | 0.0000        | 0.6938 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3529  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 0.0000  |
| 12  | 11  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 13  | 12  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 14  | 13  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 15  | 12  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 16  | 9   | 0.5500  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 1.0267  |
| 17  | 16  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 18  | 17  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 20  | 17  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 21  | 7   | 0.5500  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.5839  |
| 22  | 21  | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 23  | 22  | 0.3529  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 25  | 24  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 26  | 25  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 27  | 24  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 28  | 21  | 0.5500  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 1.0579  |
| 29  | 28  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 30  | 29  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 31  | 30  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 32  | 29  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |

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## FAN DATA PRINTOUT

System name : 0213R 27-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| -----   |             |             |
| Fan Airflow Rate .....                        | :           | 630.1 L/s   |
| Fan Static Pressure .....                     | :           | 0.0739 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1353 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1353 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1353 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1968 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| -----                       |   |             |
| Return System Loss .....    | : | -0.1353 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1353 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| -----                         |   |            |
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| -----                     |   |                |
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| -----                     |   |                |

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## PRESSURE LOSS DATA II

System name : 0213R

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1353           | -0.1523            | 5.3      | 0.0169               | 13.5906 E+04       |
| 2   | -0.1345           | -0.1515            | 5.3      | 0.0169               | 13.5906 E+04       |
| 3   | -0.1292           | -0.1461            | 5.3      | 0.0169               | 13.5906 E+04       |
| 4   | -0.1237           | -0.1406            | 5.3      | 0.0169               | 13.5906 E+04       |
| 5   | -0.1162           | -0.1331            | 5.3      | 0.0169               | 13.5906 E+04       |
| 6   | -0.1092           | -0.1261            | 5.3      | 0.0169               | 13.5906 E+04       |
| 7   | -0.0733           | -0.0902            | 5.3      | 0.0169               | 13.5906 E+04       |
| 8   | -0.0670           | -0.0778            | 4.2      | 0.0108               | 8.6087 E+04        |
| 9   | -0.0542           | -0.0651            | 4.2      | 0.0108               | 8.6087 E+04        |
| 10  | -0.0501           | -0.0609            | 4.2      | 0.0108               | 6.0446 E+04        |
| 11  | -0.0368           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 12  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 13  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 14  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 15  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 16  | -0.0390           | -0.0498            | 4.2      | 0.0108               | 6.0446 E+04        |
| 17  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 18  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 19  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 20  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 21  | -0.0607           | -0.0715            | 4.2      | 0.0108               | 8.6087 E+04        |
| 22  | -0.0505           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 23  | -0.0369           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 24  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 25  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 26  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 27  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 28  | -0.0390           | -0.0499            | 4.2      | 0.0108               | 6.0446 E+04        |
| 29  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 30  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 31  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 32  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |

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## SIZE DATA

System name : 0214I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 17.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 6   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 7   | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 8   | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 9   | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 10  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 11  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 12  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 13  | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 14  | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 15  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 16  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 17  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |

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PRESSURE LOSS DATA

System name : 0214I 27-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 17.

| Sec   | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-------|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|       | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1     | 0.0000      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0010        |
| 2     | 0.0055      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0067        |
| 3     | 0.0055      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0085        |
| 4     | 0.0055      | 0.0000                    | 0.0000                | 0.0011       | 0.0340        | 0.0000          | 0.0406        |
| 5     | 0.0033      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0053        |
| 6     | 0.0033      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0045        |
| 7     | 0.0011      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0043          | 0.0074        |
| 8     | 0.0039      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0064        |
| 9     | 0.0039      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0048        |
| 10    | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 11    | 0.0015      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5017        |
| 12    | 0.0052      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5054        |
| 13    | 0.0098      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0118        |
| 14    | 0.0039      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0068        |
| 15    | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 16    | 0.0015      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5017        |
| 17    | 0.0052      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5054        |
| ***** |             |                           |                       |              |               |                 |               |



## C-VALUE DATA

System name : 0214I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 17.

```

-----
Sec    Frm      Fit      Equip      Equip      Fric      Other      Balance
      Terminal  Thru
-----
  1      0      0.0000    0.0000    0.0000    0.0478    0.0000    0.0000
  2      1      0.2645    0.0000    0.0000    0.0573    0.0000    0.0000
  3      2      0.2645    0.0000    0.0000    0.1434    0.0000    0.0000
  4      3      0.2645    0.0000    0.0000    0.0506    1.6265    0.0000
  5      4      0.1587    0.0000    0.0000    0.0940    0.0000    0.0000
  6      5      0.1587    0.0000    0.0000    0.0578    0.0000    0.0000
  7      6      0.0525    0.0000    0.0000    0.1506    0.0000    0.3190
  8      7      0.2942    0.0000    0.0000    0.1846    0.0000    0.0000
  9      8      0.2942    0.0000    0.0000    0.0610    0.0000    0.0000
 10     9      0.0567    0.0000    0.0000    0.3247    0.0000    0.2775
 11    10      0.3145   103.8182    0.0000    0.0406    0.0000    0.0000
 12     9      0.3867   103.8182    0.0000    0.0406    0.0000    0.0000
 13     6      0.4700    0.0000    0.0000    0.1454    0.0000    0.0000
 14    13      0.2942    0.0000    0.0000    0.2116    0.0000    0.0000
 15    14      0.0567    0.0000    0.0000    0.3247    0.0000    0.2775
 16    15      0.3145   103.8182    0.0000    0.0406    0.0000    0.0000
 17    14      0.3867   103.8182    0.0000    0.0406    0.0000    0.0000
-----
*****

```



## FAN DATA PRINTOUT

System name : 0214I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 700.0 L/s  |
| Fan Static Pressure .....                     | :           | 0.5291 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.5906 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.5906 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.5906 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.5291 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.5906 kPa |
| Total Downstream Losses ..... | : | 0.5906 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0214I

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 17.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.5906            | 0.5696             | 5.8      | 0.0209               | 15.0987 E+04       |
| 2   | 0.5896            | 0.5686             | 5.8      | 0.0209               | 15.0987 E+04       |
| 3   | 0.5828            | 0.5619             | 5.8      | 0.0209               | 15.0987 E+04       |
| 4   | 0.5743            | 0.5534             | 5.8      | 0.0209               | 15.0987 E+04       |
| 5   | 0.5337            | 0.5128             | 5.8      | 0.0209               | 15.0987 E+04       |
| 6   | 0.5284            | 0.5075             | 5.8      | 0.0209               | 15.0987 E+04       |
| 7   | 0.5196            | 0.5063             | 4.7      | 0.0134               | 9.5640 E+04        |
| 8   | 0.5165            | 0.5031             | 4.7      | 0.0134               | 9.5640 E+04        |
| 9   | 0.5101            | 0.4967             | 4.7      | 0.0134               | 9.5640 E+04        |
| 10  | 0.5040            | 0.4992             | 2.8      | 0.0048               | 5.2439 E+04        |
| 11  | 0.5017            | 0.4969             | 2.8      | 0.0048               | 5.2439 E+04        |
| 12  | 0.5054            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |
| 13  | 0.5239            | 0.5105             | 4.7      | 0.0134               | 9.5640 E+04        |
| 14  | 0.5121            | 0.4988             | 4.7      | 0.0134               | 9.5640 E+04        |
| 15  | 0.5040            | 0.4992             | 2.8      | 0.0048               | 5.2439 E+04        |
| 16  | 0.5017            | 0.4969             | 2.8      | 0.0048               | 5.2439 E+04        |
| 17  | 0.5054            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |

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## SIZE DATA

System name : 0214R

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 35.

| Sec | Shape | Airflow<br>Rate | Velocity | Metal |        | Airflow |        |
|-----|-------|-----------------|----------|-------|--------|---------|--------|
|     |       |                 |          | Width | Height | Width   | Height |
|     |       | L/s             | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 2   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 3   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 4   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 5   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 6   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 7   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 8   | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 9   | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 10  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 11  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 12  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 13  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 14  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 15  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 16  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 17  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 18  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 19  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 20  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 21  | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 22  | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 23  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 24  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 25  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 26  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 27  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 28  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 29  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 30  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 31  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 32  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 33  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 34  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 35  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |

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## PRESSURE LOSS DATA

System name : 0214R

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 35.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 2   | 0.0045      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0067        |
| 3   | 0.0045      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0051        |
| 4   | 0.0045      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0070        |
| 5   | 0.0045      | 0.0000                    | 0.0000                | 0.0011       | 0.0280        | 0.0000          | 0.0336        |
| 6   | 0.0027      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0044        |
| 7   | 0.0027      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0038        |
| 8   | 0.0032      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0086          | 0.0135        |
| 9   | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 10  | 0.0057      | 0.0000                    | 0.0000                | 0.0075       | 0.0000        | 0.0000          | 0.0133        |
| 11  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 12  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 13  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 14  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 15  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 16  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0111          | 0.0178        |
| 17  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 18  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 19  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 20  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 21  | 0.0032      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0047        |
| 22  | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 23  | 0.0057      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0066        |
| 24  | 0.0038      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0046        |
| 25  | 0.0038      | 0.0000                    | 0.0000                | 0.0070       | 0.0000        | 0.0000          | 0.0108        |
| 26  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 27  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 28  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 29  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 30  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 31  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0199          | 0.0266        |
| 32  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 33  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 34  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 35  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |

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## C-VALUE DATA

System name : 0214R

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 35.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2680  | 0.0000            | 0.0000        | 0.1246 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2680  | 0.0000            | 0.0000        | 0.0337 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2680  | 0.0000            | 0.0000        | 0.1450 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2680  | 0.0000            | 0.0000        | 0.0650 | 1.6533 | 0.0000  |
| 6   | 5   | 0.1608  | 0.0000            | 0.0000        | 0.1006 | 0.0000 | 0.0000  |
| 7   | 6   | 0.1608  | 0.0000            | 0.0000        | 0.0628 | 0.0000 | 0.0000  |
| 8   | 7   | 0.1900  | 0.0000            | 0.0000        | 0.1609 | 0.0000 | 0.7920  |
| 9   | 8   | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 10  | 9   | 0.5300  | 0.0000            | 0.0000        | 0.6938 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3529  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 0.0000  |
| 12  | 11  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 13  | 12  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 14  | 13  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 15  | 12  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 16  | 9   | 0.5500  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 1.0267  |
| 17  | 16  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 18  | 17  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 20  | 17  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 21  | 7   | 0.1900  | 0.0000            | 0.0000        | 0.1410 | 0.0000 | 0.0000  |
| 22  | 21  | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 23  | 22  | 0.5300  | 0.0000            | 0.0000        | 0.0769 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3529  | 0.0000            | 0.0000        | 0.0710 | 0.0000 | 0.0000  |
| 25  | 24  | 0.3529  | 0.0000            | 0.0000        | 0.6481 | 0.0000 | 0.0000  |
| 26  | 25  | 0.3529  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 0.0000  |
| 27  | 26  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 28  | 27  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 29  | 28  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 30  | 27  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 31  | 22  | 0.5500  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 1.8347  |
| 32  | 31  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 33  | 32  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 34  | 33  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 35  | 32  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |

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## FAN DATA PRINTOUT

System name : 0214R 27-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| -----   |             |             |
| Fan Airflow Rate .....                        | :           | 630.1 L/s   |
| Fan Static Pressure .....                     | :           | 0.0678 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1292 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1292 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1292 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1906 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| -----                       |   |             |
| Return System Loss .....    | : | -0.1292 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1292 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| -----                         |   |            |
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| -----                     |   |                |
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| -----                     |   |                |

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## PRESSURE LOSS DATA II

System name : 0214R

27-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 35.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1292           | -0.1462            | 5.3      | 0.0169               | 13.5906 E+04       |
| 2   | -0.1284           | -0.1453            | 5.3      | 0.0169               | 13.5906 E+04       |
| 3   | -0.1217           | -0.1387            | 5.3      | 0.0169               | 13.5906 E+04       |
| 4   | -0.1166           | -0.1336            | 5.3      | 0.0169               | 13.5906 E+04       |
| 5   | -0.1096           | -0.1266            | 5.3      | 0.0169               | 13.5906 E+04       |
| 6   | -0.0760           | -0.0929            | 5.3      | 0.0169               | 13.5906 E+04       |
| 7   | -0.0716           | -0.0885            | 5.3      | 0.0169               | 13.5906 E+04       |
| 8   | -0.0592           | -0.0700            | 4.2      | 0.0108               | 8.6087 E+04        |
| 9   | -0.0542           | -0.0651            | 4.2      | 0.0108               | 8.6087 E+04        |
| 10  | -0.0501           | -0.0609            | 4.2      | 0.0108               | 6.0446 E+04        |
| 11  | -0.0368           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 12  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 13  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 14  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 15  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 16  | -0.0390           | -0.0498            | 4.2      | 0.0108               | 6.0446 E+04        |
| 17  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 18  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 19  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 20  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 21  | -0.0678           | -0.0786            | 4.2      | 0.0108               | 8.6087 E+04        |
| 22  | -0.0630           | -0.0739            | 4.2      | 0.0108               | 8.6087 E+04        |
| 23  | -0.0589           | -0.0697            | 4.2      | 0.0108               | 6.0446 E+04        |
| 24  | -0.0523           | -0.0632            | 4.2      | 0.0108               | 6.0446 E+04        |
| 25  | -0.0477           | -0.0586            | 4.2      | 0.0108               | 6.0446 E+04        |
| 26  | -0.0369           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 27  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 28  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 29  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 30  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 31  | -0.0390           | -0.0499            | 4.2      | 0.0108               | 6.0446 E+04        |
| 32  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 33  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 34  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 35  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |

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## SIZE DATA

System name : 0215I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Shape | Airflow | Velocity | Metal |        | Airflow |        |
|-----|-------|---------|----------|-------|--------|---------|--------|
|     |       | Rate    |          | Width | Height | Width   | Height |
|     |       | L/s     | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 2   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 3   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 4   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 5   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 6   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 7   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 8   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 9   | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 10  | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 11  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 12  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 13  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 14  | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 15  | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 16  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 17  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 18  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |

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PRESSURE LOSS DATA

System name : 0215I 26-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 18.

| Sec   | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-------|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|       | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1     | 0.0000      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0010        |
| 2     | 0.0055      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0065        |
| 3     | 0.0055      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0075        |
| 4     | 0.0055      | 0.0000                    | 0.0000                | 0.0008       | 0.0340        | 0.0000          | 0.0403        |
| 5     | 0.0055      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0085        |
| 6     | 0.0055      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0074        |
| 7     | 0.0033      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0052        |
| 8     | 0.0033      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0041        |
| 9     | 0.0060      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0020          | 0.0094        |
| 10    | 0.0039      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0065        |
| 11    | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 12    | 0.0015      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5018        |
| 13    | 0.0052      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5054        |
| 14    | 0.0060      | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0000          | 0.0094        |
| 15    | 0.0039      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0065        |
| 16    | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 17    | 0.0015      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5018        |
| 18    | 0.0052      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5055        |
| ***** |             |                           |                       |              |               |                 |               |



## C-VALUE DATA

System name : 0215I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2645 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2645 | 0.0000            | 0.0000        | 0.0931 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2645 | 0.0000            | 0.0000        | 0.0370 | 1.6265 | 0.0000  |
| 5   | 4   | 0.2645 | 0.0000            | 0.0000        | 0.1434 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2645 | 0.0000            | 0.0000        | 0.0903 | 0.0000 | 0.0000  |
| 7   | 6   | 0.1587 | 0.0000            | 0.0000        | 0.0901 | 0.0000 | 0.0000  |
| 8   | 7   | 0.1587 | 0.0000            | 0.0000        | 0.0354 | 0.0000 | 0.0000  |
| 9   | 8   | 0.2875 | 0.0000            | 0.0000        | 0.1057 | 0.0000 | 0.1510  |
| 10  | 9   | 0.2942 | 0.0000            | 0.0000        | 0.1899 | 0.0000 | 0.0000  |
| 11  | 10  | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 12  | 11  | 0.3145 | 103.8182          | 0.0000        | 0.0573 | 0.0000 | 0.0000  |
| 13  | 10  | 0.3867 | 103.8182          | 0.0000        | 0.0573 | 0.0000 | 0.0000  |
| 14  | 8   | 0.2875 | 0.0000            | 0.0000        | 0.2551 | 0.0000 | 0.0000  |
| 15  | 14  | 0.2942 | 0.0000            | 0.0000        | 0.1899 | 0.0000 | 0.0000  |
| 16  | 15  | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 17  | 16  | 0.3145 | 103.8182          | 0.0000        | 0.0618 | 0.0000 | 0.0000  |
| 18  | 15  | 0.3867 | 103.8182          | 0.0000        | 0.0618 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0215I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |               |            |
|---|---------------|------------|
| Fan Airflow Rate .....                        | :             | 700.0 L/s  |
| Fan Static Pressure .....                     | :             | 0.5404 kPa |
| -----   |               |            |
| Total Pressure Difference Across Fan .....    | :             | 0.6019 kPa |
| Static Pressure Difference Across Fan .....   | :             | 0.6019 kPa |
| Velocity Pressure Difference Across Fan ..... | :             | 0.0000 kPa |
| -----   |               |            |
| Fan Inlet / Outlet Data                       | At Inlet      | At Outlet  |
| -----   |               |            |
| Total Pressure .....                          | : 0.0000 kPa  | 0.6019 kPa |
| Static Pressure .....                         | : -0.0614 kPa | 0.5404 kPa |
| Velocity Pressure .....                       | : 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | : 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.6019 kPa |
| Total Downstream Losses ..... | : | 0.6019 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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PRESSURE LOSS DATA II

System name : 0215I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.6019            | 0.5810             | 5.8      | 0.0209               | 15.0987 E+04       |
| 2   | 0.6009            | 0.5800             | 5.8      | 0.0209               | 15.0987 E+04       |
| 3   | 0.5943            | 0.5734             | 5.8      | 0.0209               | 15.0987 E+04       |
| 4   | 0.5869            | 0.5660             | 5.8      | 0.0209               | 15.0987 E+04       |
| 5   | 0.5466            | 0.5257             | 5.8      | 0.0209               | 15.0987 E+04       |
| 6   | 0.5380            | 0.5171             | 5.8      | 0.0209               | 15.0987 E+04       |
| 7   | 0.5306            | 0.5097             | 5.8      | 0.0209               | 15.0987 E+04       |
| 8   | 0.5254            | 0.5045             | 5.8      | 0.0209               | 15.0987 E+04       |
| 9   | 0.5193            | 0.5060             | 4.7      | 0.0134               | 9.5640 E+04        |
| 10  | 0.5119            | 0.4985             | 4.7      | 0.0134               | 9.5640 E+04        |
| 11  | 0.5041            | 0.4993             | 2.8      | 0.0048               | 5.2439 E+04        |
| 12  | 0.5018            | 0.4970             | 2.8      | 0.0048               | 5.2439 E+04        |
| 13  | 0.5054            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |
| 14  | 0.5214            | 0.5080             | 4.7      | 0.0134               | 9.5640 E+04        |
| 15  | 0.5119            | 0.4986             | 4.7      | 0.0134               | 9.5640 E+04        |
| 16  | 0.5041            | 0.4993             | 2.8      | 0.0048               | 5.2439 E+04        |
| 17  | 0.5018            | 0.4970             | 2.8      | 0.0048               | 5.2439 E+04        |
| 18  | 0.5055            | 0.5007             | 2.8      | 0.0048               | 5.2439 E+04        |

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## SIZE DATA

System name : 0215R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 6   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 7   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 8   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 9   | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 10  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 11  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 12  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 13  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 14  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 15  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 16  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 17  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 18  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 19  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 20  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 21  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 22  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 23  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 24  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 25  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 26  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 27  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 28  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 29  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 30  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 31  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 32  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 33  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 34  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## PRESSURE LOSS DATA

System name : 0215R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 2   | 0.0045      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0054        |
| 3   | 0.0045      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0061        |
| 4   | 0.0045      | 0.0000                    | 0.0000                | 0.0006       | 0.0280        | 0.0000          | 0.0332        |
| 5   | 0.0045      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0070        |
| 6   | 0.0045      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0063        |
| 7   | 0.0027      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0042        |
| 8   | 0.0027      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0032        |
| 9   | 0.0032      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0003          | 0.0065        |
| 10  | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 11  | 0.0057      | 0.0000                    | 0.0000                | 0.0053       | 0.0000        | 0.0000          | 0.0111        |
| 12  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 13  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 14  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 15  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 16  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 17  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0090          | 0.0156        |
| 18  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 19  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 20  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 21  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 22  | 0.0032      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0040        |
| 23  | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 24  | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 25  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 26  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 27  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 28  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 29  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 30  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 31  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 32  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 33  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 34  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |

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## C-VALUE DATA

System name : 0215R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2680  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2680  | 0.0000            | 0.0000        | 0.0942 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2680  | 0.0000            | 0.0000        | 0.0374 | 1.6533 | 0.0000  |
| 5   | 4   | 0.2680  | 0.0000            | 0.0000        | 0.1450 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2680  | 0.0000            | 0.0000        | 0.1066 | 0.0000 | 0.0000  |
| 7   | 6   | 0.1608  | 0.0000            | 0.0000        | 0.0868 | 0.0000 | 0.0000  |
| 8   | 7   | 0.1608  | 0.0000            | 0.0000        | 0.0309 | 0.0000 | 0.0000  |
| 9   | 8   | 0.1900  | 0.0000            | 0.0000        | 0.2796 | 0.0000 | 0.0240  |
| 10  | 9   | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 11  | 10  | 0.5300  | 0.0000            | 0.0000        | 0.4931 | 0.0000 | 0.0000  |
| 12  | 11  | 0.3529  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 0.0000  |
| 13  | 12  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 14  | 13  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 15  | 14  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 16  | 13  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 17  | 10  | 0.5500  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 0.8260  |
| 18  | 17  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 19  | 18  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 20  | 19  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 21  | 18  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 22  | 8   | 0.1900  | 0.0000            | 0.0000        | 0.0679 | 0.0000 | 0.0000  |
| 23  | 22  | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 24  | 23  | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 25  | 24  | 0.3529  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 0.0000  |
| 26  | 25  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 27  | 26  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 28  | 27  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 29  | 26  | -0.1069 | 5.9799            | 0.0000        | 0.0307 | 0.0000 | 2.6958  |
| 30  | 23  | 0.5500  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 1.0579  |
| 31  | 30  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 32  | 31  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 33  | 32  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 34  | 31  | -0.1069 | 5.9799            | 0.0000        | 0.0307 | 0.0000 | 2.6958  |

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## FAN DATA PRINTOUT

System name : 0215R 26-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 630.1 L/s   |
| Fan Static Pressure .....                     | :           | 0.0634 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1248 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1248 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1248 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1863 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.1248 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1248 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0215R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1248           | -0.1418            | 5.3      | 0.0169               | 13.5906 E+04       |
| 2   | -0.1240           | -0.1410            | 5.3      | 0.0169               | 13.5906 E+04       |
| 3   | -0.1187           | -0.1356            | 5.3      | 0.0169               | 13.5906 E+04       |
| 4   | -0.1125           | -0.1295            | 5.3      | 0.0169               | 13.5906 E+04       |
| 5   | -0.0794           | -0.0963            | 5.3      | 0.0169               | 13.5906 E+04       |
| 6   | -0.0724           | -0.0893            | 5.3      | 0.0169               | 13.5906 E+04       |
| 7   | -0.0660           | -0.0829            | 5.3      | 0.0169               | 13.5906 E+04       |
| 8   | -0.0618           | -0.0788            | 5.3      | 0.0169               | 13.5906 E+04       |
| 9   | -0.0583           | -0.0692            | 4.2      | 0.0108               | 8.6087 E+04        |
| 10  | -0.0521           | -0.0629            | 4.2      | 0.0108               | 8.6087 E+04        |
| 11  | -0.0479           | -0.0588            | 4.2      | 0.0108               | 6.0446 E+04        |
| 12  | -0.0368           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 13  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 14  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 15  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 16  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 17  | -0.0390           | -0.0498            | 4.2      | 0.0108               | 6.0446 E+04        |
| 18  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 19  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 20  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 21  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 22  | -0.0586           | -0.0694            | 4.2      | 0.0108               | 8.6087 E+04        |
| 23  | -0.0546           | -0.0655            | 4.2      | 0.0108               | 8.6087 E+04        |
| 24  | -0.0505           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 25  | -0.0369           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 26  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 27  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 28  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 29  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 30  | -0.0390           | -0.0499            | 4.2      | 0.0108               | 6.0446 E+04        |
| 31  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 32  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 33  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 34  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |

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## SIZE DATA

System name : 0216I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 6   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 7   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 8   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 9   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 10  | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 11  | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 12  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 13  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 14  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 15  | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 16  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 17  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 18  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |

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PRESSURE LOSS DATA

System name : 0216I 26-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 18.

| Sec   | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-------|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|       | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1     | 0.0000      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0010        |
| 2     | 0.0055      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0065        |
| 3     | 0.0055      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0070        |
| 4     | 0.0055      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0069        |
| 5     | 0.0055      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0075        |
| 6     | 0.0055      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0067        |
| 7     | 0.0055      | 0.0000                    | 0.0000                | 0.0030       | 0.0340        | 0.0000          | 0.0425        |
| 8     | 0.0055      | 0.0000                    | 0.0000                | 0.0041       | 0.0000        | 0.0000          | 0.0097        |
| 9     | 0.0055      | 0.0000                    | 0.0000                | 0.0035       | 0.0000        | 0.0000          | 0.0091        |
| 10    | 0.0011      | 0.0000                    | 0.0000                | 0.0046       | 0.0000        | 0.0001          | 0.0058        |
| 11    | 0.0039      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0063        |
| 12    | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 13    | 0.0015      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5018        |
| 14    | 0.0052      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5054        |
| 15    | 0.0098      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0122        |
| 16    | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 17    | 0.0015      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5017        |
| 18    | 0.0052      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5054        |
| ***** |             |                           |                       |              |               |                 |               |



## C-VALUE DATA

System name : 0216I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2645 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2645 | 0.0000            | 0.0000        | 0.0710 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2645 | 0.0000            | 0.0000        | 0.0639 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2645 | 0.0000            | 0.0000        | 0.0941 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2645 | 0.0000            | 0.0000        | 0.0565 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2645 | 0.0000            | 0.0000        | 0.1434 | 1.6265 | 0.0000  |
| 8   | 7   | 0.2645 | 0.0000            | 0.0000        | 0.1979 | 0.0000 | 0.0000  |
| 9   | 8   | 0.2645 | 0.0000            | 0.0000        | 0.1685 | 0.0000 | 0.0000  |
| 10  | 9   | 0.0525 | 0.0000            | 0.0000        | 0.3435 | 0.0000 | 0.0089  |
| 11  | 10  | 0.2942 | 0.0000            | 0.0000        | 0.1782 | 0.0000 | 0.0000  |
| 12  | 11  | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 13  | 12  | 0.3145 | 103.8182          | 0.0000        | 0.0568 | 0.0000 | 0.0000  |
| 14  | 11  | 0.3867 | 103.8182          | 0.0000        | 0.0568 | 0.0000 | 0.0000  |
| 15  | 9   | 0.4700 | 0.0000            | 0.0000        | 0.1782 | 0.0000 | 0.0000  |
| 16  | 15  | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 17  | 16  | 0.3145 | 103.8182          | 0.0000        | 0.0409 | 0.0000 | 0.0000  |
| 18  | 15  | 0.3867 | 103.8182          | 0.0000        | 0.0409 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0216I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 700.0 L/s  |
| Fan Static Pressure .....                     | :           | 0.5530 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.6144 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.6144 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.6144 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.5530 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.6144 kPa |
| Total Downstream Losses ..... | : | 0.6144 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0216I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 18.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.6144            | 0.5935             | 5.8      | 0.0209               | 15.0987 E+04       |
| 2   | 0.6134            | 0.5925             | 5.8      | 0.0209               | 15.0987 E+04       |
| 3   | 0.6069            | 0.5860             | 5.8      | 0.0209               | 15.0987 E+04       |
| 4   | 0.5999            | 0.5790             | 5.8      | 0.0209               | 15.0987 E+04       |
| 5   | 0.5930            | 0.5721             | 5.8      | 0.0209               | 15.0987 E+04       |
| 6   | 0.5855            | 0.5646             | 5.8      | 0.0209               | 15.0987 E+04       |
| 7   | 0.5788            | 0.5579             | 5.8      | 0.0209               | 15.0987 E+04       |
| 8   | 0.5363            | 0.5154             | 5.8      | 0.0209               | 15.0987 E+04       |
| 9   | 0.5266            | 0.5057             | 5.8      | 0.0209               | 15.0987 E+04       |
| 10  | 0.5175            | 0.5041             | 4.7      | 0.0134               | 9.5640 E+04        |
| 11  | 0.5118            | 0.4984             | 4.7      | 0.0134               | 9.5640 E+04        |
| 12  | 0.5041            | 0.4993             | 2.8      | 0.0048               | 5.2439 E+04        |
| 13  | 0.5018            | 0.4970             | 2.8      | 0.0048               | 5.2439 E+04        |
| 14  | 0.5054            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |
| 15  | 0.5176            | 0.5042             | 4.7      | 0.0134               | 9.5640 E+04        |
| 16  | 0.5040            | 0.4992             | 2.8      | 0.0048               | 5.2439 E+04        |
| 17  | 0.5017            | 0.4969             | 2.8      | 0.0048               | 5.2439 E+04        |
| 18  | 0.5054            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |

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## SIZE DATA

System name : 0216R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 6   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 7   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 8   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 9   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 10  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 11  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 12  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 13  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 14  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 15  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 16  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 17  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 18  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 19  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 20  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 21  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 22  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 23  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 24  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 25  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 26  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 27  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 28  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 29  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 30  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 31  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 32  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 33  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 34  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## PRESSURE LOSS DATA

System name : 0216R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 2   | 0.0045      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0054        |
| 3   | 0.0045      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0058        |
| 4   | 0.0045      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0056        |
| 5   | 0.0045      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0062        |
| 6   | 0.0045      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0055        |
| 7   | 0.0045      | 0.0000                    | 0.0000                | 0.0025       | 0.0280        | 0.0000          | 0.0350        |
| 8   | 0.0045      | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0000          | 0.0079        |
| 9   | 0.0045      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0078        |
| 10  | 0.0090      | 0.0000                    | 0.0000                | 0.0038       | 0.0000        | 0.0000          | 0.0127        |
| 11  | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 12  | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 13  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 14  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 15  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 16  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 17  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 18  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 19  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 20  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 21  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 22  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 23  | 0.0093      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0067          | 0.0168        |
| 24  | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 25  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 26  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 27  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 28  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 29  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 30  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 31  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 32  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 33  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 34  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |

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## C-VALUE DATA

System name : 0216R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2680  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2680  | 0.0000            | 0.0000        | 0.0718 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2680  | 0.0000            | 0.0000        | 0.0646 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2680  | 0.0000            | 0.0000        | 0.0951 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2680  | 0.0000            | 0.0000        | 0.0572 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2680  | 0.0000            | 0.0000        | 0.1450 | 1.6533 | 0.0000  |
| 8   | 7   | 0.2680  | 0.0000            | 0.0000        | 0.1989 | 0.0000 | 0.0000  |
| 9   | 8   | 0.2680  | 0.0000            | 0.0000        | 0.1921 | 0.0000 | 0.0000  |
| 10  | 9   | 0.5300  | 0.0000            | 0.0000        | 0.3476 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 12  | 11  | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 13  | 12  | 0.3529  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 0.0000  |
| 14  | 13  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 15  | 14  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 16  | 15  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 17  | 14  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 18  | 11  | 0.5500  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 1.0579  |
| 19  | 18  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 20  | 19  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 21  | 20  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 22  | 19  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 23  | 9   | 0.5500  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.6152  |
| 24  | 23  | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 25  | 24  | 0.3529  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 0.0000  |
| 26  | 25  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 27  | 26  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 28  | 27  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 29  | 26  | -0.1069 | 5.9799            | 0.0000        | 0.0307 | 0.0000 | 2.6958  |
| 30  | 23  | 0.5500  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 1.0579  |
| 31  | 30  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 32  | 31  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 33  | 32  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 34  | 31  | -0.1069 | 5.9799            | 0.0000        | 0.0307 | 0.0000 | 2.6958  |

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## FAN DATA PRINTOUT

System name : 0216R 26-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 630.1 L/s   |
| Fan Static Pressure .....                     | :           | 0.0858 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1472 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1472 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1472 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.2087 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.1472 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1472 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0216R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1472           | -0.1642            | 5.3      | 0.0169               | 13.5906 E+04       |
| 2   | -0.1464           | -0.1634            | 5.3      | 0.0169               | 13.5906 E+04       |
| 3   | -0.1411           | -0.1580            | 5.3      | 0.0169               | 13.5906 E+04       |
| 4   | -0.1353           | -0.1522            | 5.3      | 0.0169               | 13.5906 E+04       |
| 5   | -0.1297           | -0.1466            | 5.3      | 0.0169               | 13.5906 E+04       |
| 6   | -0.1235           | -0.1405            | 5.3      | 0.0169               | 13.5906 E+04       |
| 7   | -0.1180           | -0.1350            | 5.3      | 0.0169               | 13.5906 E+04       |
| 8   | -0.0830           | -0.1000            | 5.3      | 0.0169               | 13.5906 E+04       |
| 9   | -0.0751           | -0.0920            | 5.3      | 0.0169               | 13.5906 E+04       |
| 10  | -0.0673           | -0.0782            | 4.2      | 0.0108               | 8.6087 E+04        |
| 11  | -0.0546           | -0.0654            | 4.2      | 0.0108               | 8.6087 E+04        |
| 12  | -0.0504           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 13  | -0.0368           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 14  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 15  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 16  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 17  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 18  | -0.0390           | -0.0498            | 4.2      | 0.0108               | 6.0446 E+04        |
| 19  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 20  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 21  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 22  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 23  | -0.0607           | -0.0715            | 4.2      | 0.0108               | 8.6087 E+04        |
| 24  | -0.0505           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 25  | -0.0369           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 26  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 27  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 28  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 29  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 30  | -0.0390           | -0.0499            | 4.2      | 0.0108               | 6.0446 E+04        |
| 31  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 32  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 33  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 34  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |

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## SIZE DATA

System name : 0217I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Shape | Airflow | Velocity | Metal |        | Airflow |        |
|-----|-------|---------|----------|-------|--------|---------|--------|
|     |       | Rate    |          | Width | Height | Width   | Height |
|     |       | L/s     | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 2   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 3   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 4   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 5   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 6   | REC   | 700.0   | 5.8      | 400.0 | 300.0  | 400.0   | 300.0  |
| 7   | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 8   | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 9   | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 10  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 11  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 12  | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 13  | REC   | 350.0   | 4.7      | 300.0 | 250.0  | 300.0   | 250.0  |
| 14  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 15  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |
| 16  | REC   | 175.0   | 2.8      | 250.0 | 250.0  | 250.0   | 250.0  |

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## PRESSURE LOSS DATA

System name : 0217I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0010        |
| 2   | 0.0055      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0065        |
| 3   | 0.0055      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0085        |
| 4   | 0.0055      | 0.0000                    | 0.0000                | 0.0006       | 0.0340        | 0.0000          | 0.0401        |
| 5   | 0.0055      | 0.0000                    | 0.0000                | 0.0032       | 0.0000        | 0.0000          | 0.0087        |
| 6   | 0.0055      | 0.0000                    | 0.0000                | 0.0040       | 0.0000        | 0.0000          | 0.0095        |
| 7   | 0.0060      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0010          | 0.0089        |
| 8   | 0.0039      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0064        |
| 9   | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 10  | 0.0015      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5018        |
| 11  | 0.0052      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5055        |
| 12  | 0.0060      | 0.0000                    | 0.0000                | 0.0029       | 0.0000        | 0.0000          | 0.0089        |
| 13  | 0.0039      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0064        |
| 14  | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 15  | 0.0015      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5018        |
| 16  | 0.0052      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5054        |

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## C-VALUE DATA

System name : 0217I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. C-VALUE DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2645 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2645 | 0.0000            | 0.0000        | 0.1426 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2645 | 0.0000            | 0.0000        | 0.0268 | 1.6265 | 0.0000  |
| 5   | 4   | 0.2645 | 0.0000            | 0.0000        | 0.1530 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2645 | 0.0000            | 0.0000        | 0.1917 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2875 | 0.0000            | 0.0000        | 0.1425 | 0.0000 | 0.0728  |
| 8   | 7   | 0.2942 | 0.0000            | 0.0000        | 0.1868 | 0.0000 | 0.0000  |
| 9   | 8   | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 10  | 9   | 0.3145 | 103.8182          | 0.0000        | 0.0638 | 0.0000 | 0.0000  |
| 11  | 8   | 0.3867 | 103.8182          | 0.0000        | 0.0638 | 0.0000 | 0.0000  |
| 12  | 6   | 0.2875 | 0.0000            | 0.0000        | 0.2184 | 0.0000 | 0.0000  |
| 13  | 12  | 0.2942 | 0.0000            | 0.0000        | 0.1868 | 0.0000 | 0.0000  |
| 14  | 13  | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 15  | 14  | 0.3145 | 103.8182          | 0.0000        | 0.0553 | 0.0000 | 0.0000  |
| 16  | 13  | 0.3867 | 103.8182          | 0.0000        | 0.0553 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0217I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 700.0 L/s  |
| Fan Static Pressure .....                     | :           | 0.5338 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.5952 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.5952 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.5952 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.5338 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.5952 kPa |
| Total Downstream Losses ..... | : | 0.5952 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0217I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.5952            | 0.5743             | 5.8      | 0.0209               | 15.0987 E+04       |
| 2   | 0.5942            | 0.5733             | 5.8      | 0.0209               | 15.0987 E+04       |
| 3   | 0.5877            | 0.5668             | 5.8      | 0.0209               | 15.0987 E+04       |
| 4   | 0.5792            | 0.5583             | 5.8      | 0.0209               | 15.0987 E+04       |
| 5   | 0.5391            | 0.5182             | 5.8      | 0.0209               | 15.0987 E+04       |
| 6   | 0.5303            | 0.5094             | 5.8      | 0.0209               | 15.0987 E+04       |
| 7   | 0.5198            | 0.5065             | 4.7      | 0.0134               | 9.5640 E+04        |
| 8   | 0.5119            | 0.4985             | 4.7      | 0.0134               | 9.5640 E+04        |
| 9   | 0.5041            | 0.4993             | 2.8      | 0.0048               | 5.2439 E+04        |
| 10  | 0.5018            | 0.4970             | 2.8      | 0.0048               | 5.2439 E+04        |
| 11  | 0.5055            | 0.5007             | 2.8      | 0.0048               | 5.2439 E+04        |
| 12  | 0.5208            | 0.5074             | 4.7      | 0.0134               | 9.5640 E+04        |
| 13  | 0.5119            | 0.4985             | 4.7      | 0.0134               | 9.5640 E+04        |
| 14  | 0.5041            | 0.4993             | 2.8      | 0.0048               | 5.2439 E+04        |
| 15  | 0.5018            | 0.4970             | 2.8      | 0.0048               | 5.2439 E+04        |
| 16  | 0.5054            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |

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## SIZE DATA

System name : 0217R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Shape | Airflow<br>Rate | Velocity | Metal |        | Airflow |        |
|-----|-------|-----------------|----------|-------|--------|---------|--------|
|     |       |                 |          | Width | Height | Width   | Height |
|     |       | L/s             | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 2   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 3   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 4   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 5   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 6   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 7   | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 8   | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 9   | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 10  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 11  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 12  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 13  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 14  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 15  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 16  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 17  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 18  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 19  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 20  | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 21  | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 22  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 23  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 24  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 25  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 26  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 27  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 28  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 29  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 30  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 31  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 32  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |

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## PRESSURE LOSS DATA

System name : 0217R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 2   | 0.0045      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0054        |
| 3   | 0.0045      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0066        |
| 4   | 0.0045      | 0.0000                    | 0.0000                | 0.0006       | 0.0280        | 0.0000          | 0.0332        |
| 5   | 0.0045      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0070        |
| 6   | 0.0045      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0078        |
| 7   | 0.0032      | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0000          | 0.0059        |
| 8   | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 9   | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 10  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 11  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 12  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 13  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 14  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 15  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 16  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 17  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 18  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 19  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 20  | 0.0032      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0016          | 0.0059        |
| 21  | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 22  | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 23  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 24  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 25  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 26  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 27  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 28  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 29  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 30  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 31  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 32  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |

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## C-VALUE DATA

System name : 0217R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2680  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2680  | 0.0000            | 0.0000        | 0.1224 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2680  | 0.0000            | 0.0000        | 0.0362 | 1.6533 | 0.0000  |
| 5   | 4   | 0.2680  | 0.0000            | 0.0000        | 0.1450 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2680  | 0.0000            | 0.0000        | 0.1934 | 0.0000 | 0.0000  |
| 7   | 6   | 0.1900  | 0.0000            | 0.0000        | 0.2516 | 0.0000 | 0.0000  |
| 8   | 7   | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 9   | 8   | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 10  | 9   | 0.3529  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 12  | 11  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 13  | 12  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 14  | 11  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 15  | 8   | 0.5500  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 1.0579  |
| 16  | 15  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 17  | 16  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 18  | 17  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 19  | 16  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 20  | 6   | 0.1900  | 0.0000            | 0.0000        | 0.0960 | 0.0000 | 0.1517  |
| 21  | 20  | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 22  | 21  | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 23  | 22  | 0.3529  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 25  | 24  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 26  | 25  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 27  | 24  | -0.1069 | 5.9799            | 0.0000        | 0.0307 | 0.0000 | 2.6958  |
| 28  | 21  | 0.5500  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 1.0579  |
| 29  | 28  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 30  | 29  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 31  | 30  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 32  | 29  | -0.1069 | 5.9799            | 0.0000        | 0.0307 | 0.0000 | 2.6958  |

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## FAN DATA PRINTOUT

System name : 0217R 26-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| -----   |             |             |
| Fan Airflow Rate .....                        | :           | 630.1 L/s   |
| Fan Static Pressure .....                     | :           | 0.0598 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1213 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1213 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1213 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1827 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| -----                       |   |             |
| Return System Loss .....    | : | -0.1213 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1213 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| -----                         |   |            |
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| -----                     |   |                |
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0217R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1213           | -0.1382            | 5.3      | 0.0169               | 13.5906 E+04       |
| 2   | -0.1205           | -0.1374            | 5.3      | 0.0169               | 13.5906 E+04       |
| 3   | -0.1151           | -0.1320            | 5.3      | 0.0169               | 13.5906 E+04       |
| 4   | -0.1085           | -0.1254            | 5.3      | 0.0169               | 13.5906 E+04       |
| 5   | -0.0753           | -0.0923            | 5.3      | 0.0169               | 13.5906 E+04       |
| 6   | -0.0683           | -0.0853            | 5.3      | 0.0169               | 13.5906 E+04       |
| 7   | -0.0605           | -0.0714            | 4.2      | 0.0108               | 8.6087 E+04        |
| 8   | -0.0546           | -0.0654            | 4.2      | 0.0108               | 8.6087 E+04        |
| 9   | -0.0504           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 10  | -0.0368           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 11  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 12  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 13  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 14  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 15  | -0.0390           | -0.0498            | 4.2      | 0.0108               | 6.0446 E+04        |
| 16  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 17  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 18  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 19  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 20  | -0.0589           | -0.0697            | 4.2      | 0.0108               | 8.6087 E+04        |
| 21  | -0.0546           | -0.0655            | 4.2      | 0.0108               | 8.6087 E+04        |
| 22  | -0.0505           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 23  | -0.0369           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 24  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 25  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 26  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 27  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 28  | -0.0390           | -0.0499            | 4.2      | 0.0108               | 6.0446 E+04        |
| 29  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 30  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 31  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 32  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |

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## SIZE DATA

System name : 0218I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 6   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 7   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 8   | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 9   | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 10  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 11  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 12  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 13  | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 14  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 15  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 16  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |

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## PRESSURE LOSS DATA

System name : 0218I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0010        |
| 2   | 0.0055      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0065        |
| 3   | 0.0055      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0073        |
| 4   | 0.0055      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0063        |
| 5   | 0.0055      | 0.0000                    | 0.0000                | 0.0030       | 0.0340        | 0.0000          | 0.0425        |
| 6   | 0.0055      | 0.0000                    | 0.0000                | 0.0039       | 0.0000        | 0.0000          | 0.0095        |
| 7   | 0.0055      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0085        |
| 8   | 0.0011      | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0014          | 0.0058        |
| 9   | 0.0039      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0065        |
| 10  | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 11  | 0.0015      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5018        |
| 12  | 0.0052      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5055        |
| 13  | 0.0098      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0124        |
| 14  | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 15  | 0.0015      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5018        |
| 16  | 0.0052      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5054        |

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## C-VALUE DATA

System name : 0218I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. C-VALUE DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2645 | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2645 | 0.0000            | 0.0000        | 0.0849 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2645 | 0.0000            | 0.0000        | 0.0369 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2645 | 0.0000            | 0.0000        | 0.1434 | 1.6265 | 0.0000  |
| 6   | 5   | 0.2645 | 0.0000            | 0.0000        | 0.1886 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2645 | 0.0000            | 0.0000        | 0.1434 | 0.0000 | 0.0000  |
| 8   | 7   | 0.0525 | 0.0000            | 0.0000        | 0.2516 | 0.0000 | 0.1033  |
| 9   | 8   | 0.2942 | 0.0000            | 0.0000        | 0.1910 | 0.0000 | 0.0000  |
| 10  | 9   | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 11  | 10  | 0.3145 | 103.8182          | 0.0000        | 0.0615 | 0.0000 | 0.0000  |
| 12  | 9   | 0.3867 | 103.8182          | 0.0000        | 0.0615 | 0.0000 | 0.0000  |
| 13  | 7   | 0.4700 | 0.0000            | 0.0000        | 0.1910 | 0.0000 | 0.0000  |
| 14  | 13  | 0.0567 | 0.0000            | 0.0000        | 0.3247 | 0.0000 | 0.2775  |
| 15  | 14  | 0.3145 | 103.8182          | 0.0000        | 0.0527 | 0.0000 | 0.0000  |
| 16  | 13  | 0.3867 | 103.8182          | 0.0000        | 0.0527 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0218I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 700.0 L/s  |
| Fan Static Pressure .....                     | :           | 0.5380 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.5995 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.5995 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.5995 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.5380 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.5995 kPa |
| Total Downstream Losses ..... | : | 0.5995 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0218I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 16.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.5995            | 0.5786             | 5.8      | 0.0209               | 15.0987 E+04       |
| 2   | 0.5985            | 0.5776             | 5.8      | 0.0209               | 15.0987 E+04       |
| 3   | 0.5919            | 0.5710             | 5.8      | 0.0209               | 15.0987 E+04       |
| 4   | 0.5846            | 0.5637             | 5.8      | 0.0209               | 15.0987 E+04       |
| 5   | 0.5783            | 0.5574             | 5.8      | 0.0209               | 15.0987 E+04       |
| 6   | 0.5358            | 0.5149             | 5.8      | 0.0209               | 15.0987 E+04       |
| 7   | 0.5263            | 0.5054             | 5.8      | 0.0209               | 15.0987 E+04       |
| 8   | 0.5164            | 0.5030             | 4.7      | 0.0134               | 9.5640 E+04        |
| 9   | 0.5120            | 0.4986             | 4.7      | 0.0134               | 9.5640 E+04        |
| 10  | 0.5041            | 0.4993             | 2.8      | 0.0048               | 5.2439 E+04        |
| 11  | 0.5018            | 0.4970             | 2.8      | 0.0048               | 5.2439 E+04        |
| 12  | 0.5055            | 0.5007             | 2.8      | 0.0048               | 5.2439 E+04        |
| 13  | 0.5178            | 0.5044             | 4.7      | 0.0134               | 9.5640 E+04        |
| 14  | 0.5041            | 0.4993             | 2.8      | 0.0048               | 5.2439 E+04        |
| 15  | 0.5018            | 0.4970             | 2.8      | 0.0048               | 5.2439 E+04        |
| 16  | 0.5054            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |

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## SIZE DATA

System name : 0218R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Shape | Airflow<br>Rate | Velocity | Metal |        | Airflow |        |
|-----|-------|-----------------|----------|-------|--------|---------|--------|
|     |       |                 |          | Width | Height | Width   | Height |
|     |       | L/s             | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 2   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 3   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 4   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 5   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 6   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 7   | REC   | 630.1           | 5.3      | 400.0 | 300.0  | 400.0   | 300.0  |
| 8   | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 9   | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 10  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 11  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 12  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 13  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 14  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 15  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 16  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 17  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 18  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 19  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 20  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 21  | REC   | 315.0           | 4.2      | 300.0 | 250.0  | 300.0   | 250.0  |
| 22  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 23  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 24  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 25  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 26  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 27  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 28  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 29  | REC   | 157.5           | 4.2      | 250.0 | 150.0  | 250.0   | 150.0  |
| 30  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 31  | REC   | 105.0           | 2.8      | 250.0 | 150.0  | 250.0   | 150.0  |
| 32  | REC   | 52.5            | 2.3      | 150.0 | 150.0  | 150.0   | 150.0  |

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## PRESSURE LOSS DATA

System name : 0218R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 2   | 0.0045      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0054        |
| 3   | 0.0045      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0060        |
| 4   | 0.0045      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0052        |
| 5   | 0.0045      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0070        |
| 6   | 0.0045      | 0.0000                    | 0.0000                | 0.0033       | 0.0280        | 0.0000          | 0.0358        |
| 7   | 0.0045      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0073        |
| 8   | 0.0090      | 0.0000                    | 0.0000                | 0.0038       | 0.0000        | 0.0000          | 0.0127        |
| 9   | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 10  | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 11  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 12  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 13  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 14  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 15  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 16  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 17  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 18  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 19  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 20  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 21  | 0.0093      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0067          | 0.0168        |
| 22  | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 23  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 24  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 25  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 26  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 27  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 28  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 29  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 30  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 31  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 32  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |

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## C-VALUE DATA

System name : 0218R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2680  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2680  | 0.0000            | 0.0000        | 0.0858 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2680  | 0.0000            | 0.0000        | 0.0373 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2680  | 0.0000            | 0.0000        | 0.1450 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2680  | 0.0000            | 0.0000        | 0.1934 | 1.6533 | 0.0000  |
| 7   | 6   | 0.2680  | 0.0000            | 0.0000        | 0.1637 | 0.0000 | 0.0000  |
| 8   | 7   | 0.5300  | 0.0000            | 0.0000        | 0.3475 | 0.0000 | 0.0000  |
| 9   | 8   | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 10  | 9   | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3529  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 0.0000  |
| 12  | 11  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 13  | 12  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 14  | 13  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 15  | 12  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 16  | 9   | 0.5500  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 1.0579  |
| 17  | 16  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 18  | 17  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 20  | 17  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 21  | 7   | 0.5500  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.6152  |
| 22  | 21  | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 23  | 22  | 0.3529  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 25  | 24  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 26  | 25  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 27  | 24  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 28  | 21  | 0.5500  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 1.0579  |
| 29  | 28  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 30  | 29  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 31  | 30  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 32  | 29  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |

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## FAN DATA PRINTOUT

System name : 0218R 26-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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## Fan Selection Parameters (Return System)

```

-----
Fan Airflow Rate ..... :      630.1 L/s
Fan Static Pressure ..... :      0.0734 kPa
-----
Total Pressure Difference Across Fan ..... :      0.1348 kPa
Static Pressure Difference Across Fan ..... :      0.1348 kPa
Velocity Pressure Difference Across Fan ..... :      0.0000 kPa
-----
Fan Inlet / Outlet Data                At Inlet                At Outlet
-----
Total Pressure ..... :      -0.1348 kPa      0.0000 kPa
Static Pressure ..... :      -0.1962 kPa     -0.0614 kPa
Velocity Pressure ..... :      0.0614 kPa      0.0614 kPa
Velocity ..... :      10.0 m/s      10.0 m/s
-----

```

## Losses Upstream of Fan

```

-----
Return System Loss ..... :      -0.1348 kPa
Filter Loss ..... :      0.0000 kPa
Other Upstream Losses ..... :      0.0000 kPa
Total Upstream Losses ..... :      -0.1348 kPa
-----

```

## Losses Downstream of Fan

```

-----
Filter Loss ..... :      0.0000 kPa
Other Downstream Losses ..... :      0.0000 kPa
Total Downstream Losses ..... :      0.0000 kPa
-----

```

## Psychrometric Properties

```

-----
Altitude ..... :      0.0 m
Temperature ..... :      12.8 C
Relative Humidity ..... :      100.0 %
Density ..... :      1.2296 kg/cu m
Viscosity ..... :      0.0040 sqm/s
Barometric Pressure ..... :      101.3260 kPa
Vapor Pressure ..... :      1.4734 kPa
-----
*****

```



## PRESSURE LOSS DATA II

System name : 0218R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 32.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1348           | -0.1517            | 5.3      | 0.0169               | 13.5906 E+04       |
| 2   | -0.1340           | -0.1509            | 5.3      | 0.0169               | 13.5906 E+04       |
| 3   | -0.1286           | -0.1455            | 5.3      | 0.0169               | 13.5906 E+04       |
| 4   | -0.1226           | -0.1395            | 5.3      | 0.0169               | 13.5906 E+04       |
| 5   | -0.1174           | -0.1344            | 5.3      | 0.0169               | 13.5906 E+04       |
| 6   | -0.1104           | -0.1274            | 5.3      | 0.0169               | 13.5906 E+04       |
| 7   | -0.0746           | -0.0916            | 5.3      | 0.0169               | 13.5906 E+04       |
| 8   | -0.0673           | -0.0782            | 4.2      | 0.0108               | 8.6087 E+04        |
| 9   | -0.0546           | -0.0654            | 4.2      | 0.0108               | 8.6087 E+04        |
| 10  | -0.0504           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 11  | -0.0368           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 12  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 13  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 14  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 15  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 16  | -0.0390           | -0.0498            | 4.2      | 0.0108               | 6.0446 E+04        |
| 17  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 18  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 19  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 20  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 21  | -0.0607           | -0.0715            | 4.2      | 0.0108               | 8.6087 E+04        |
| 22  | -0.0505           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 23  | -0.0369           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 24  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 25  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 26  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 27  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 28  | -0.0390           | -0.0499            | 4.2      | 0.0108               | 6.0446 E+04        |
| 29  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 30  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 31  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 32  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |

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## SIZE DATA

System name : 0219I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 19.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 6   | REC   | 700.0           | 5.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 7   | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 8   | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 9   | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 10  | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 11  | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 12  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 13  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 14  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 15  | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 16  | REC   | 350.0           | 4.7      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 17  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 18  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 19  | REC   | 175.0           | 2.8      | 250.0               | 250.0  | 250.0                 | 250.0  |

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## PRESSURE LOSS DATA

System name : 0219I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 19.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0010        |
| 2   | 0.0055      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0065        |
| 3   | 0.0055      | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0000          | 0.0082        |
| 4   | 0.0055      | 0.0000                    | 0.0000                | 0.0025       | 0.0340        | 0.0000          | 0.0421        |
| 5   | 0.0055      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0085        |
| 6   | 0.0055      | 0.0000                    | 0.0000                | 0.0035       | 0.0000        | 0.0000          | 0.0090        |
| 7   | 0.0011      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0019        |
| 8   | 0.0039      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0053        |
| 9   | 0.0039      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0053        |
| 10  | 0.0039      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0047        |
| 11  | 0.0039      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0047        |
| 12  | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 13  | 0.0015      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5018        |
| 14  | 0.0052      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5054        |
| 15  | 0.0098      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0030          | 0.0152        |
| 16  | 0.0039      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0069        |
| 17  | 0.0008      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0013          | 0.0037        |
| 18  | 0.0015      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5017        |
| 19  | 0.0052      | 0.5000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.5054        |

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## C-VALUE DATA

System name : 0219I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 19.

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-----
Sec    Frm      Fit      Equip      Equip      Fric      Other      Balance
      Terminal  Thru
-----
  1      0      0.0000    0.0000    0.0000    0.0478    0.0000    0.0000
  2      1      0.2645    0.0000    0.0000    0.0478    0.0000    0.0000
  3      2      0.2645    0.0000    0.0000    0.1268    0.0000    0.0000
  4      3      0.2645    0.0000    0.0000    0.1214    1.6265    0.0000
  5      4      0.2645    0.0000    0.0000    0.1434    0.0000    0.0000
  6      5      0.2645    0.0000    0.0000    0.1660    0.0000    0.0000
  7      6      0.0525    0.0000    0.0000    0.0636    0.0000    0.0000
  8      7      0.2942    0.0000    0.0000    0.1054    0.0000    0.0000
  9      8      0.2942    0.0000    0.0000    0.0990    0.0000    0.0000
 10     9      0.2942    0.0000    0.0000    0.0588    0.0000    0.0000
 11    10      0.2942    0.0000    0.0000    0.0597    0.0000    0.0000
 12    11      0.0567    0.0000    0.0000    0.3247    0.0000    0.2775
 13    12      0.3145   103.8182    0.0000    0.0522    0.0000    0.0000
 14    11      0.3867   103.8182    0.0000    0.0522    0.0000    0.0000
 15     6      0.4700    0.0000    0.0000    0.1766    0.0000    0.2215
 16    15      0.2942    0.0000    0.0000    0.2222    0.0000    0.0000
 17    16      0.0567    0.0000    0.0000    0.3247    0.0000    0.2775
 18    17      0.3145   103.8182    0.0000    0.0422    0.0000    0.0000
 19    16      0.3867   103.8182    0.0000    0.0422    0.0000    0.0000
-----
*****

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## FAN DATA PRINTOUT

System name : 0219I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |               |            |
|---|---------------|------------|
| Fan Airflow Rate .....                        | :             | 700.0 L/s  |
| Fan Static Pressure .....                     | :             | 0.5413 kPa |
| -----   |               |            |
| Total Pressure Difference Across Fan .....    | :             | 0.6027 kPa |
| Static Pressure Difference Across Fan .....   | :             | 0.6027 kPa |
| Velocity Pressure Difference Across Fan ..... | :             | 0.0000 kPa |
| -----   |               |            |
| Fan Inlet / Outlet Data                       | At Inlet      | At Outlet  |
| -----   |               |            |
| Total Pressure .....                          | : 0.0000 kPa  | 0.6027 kPa |
| Static Pressure .....                         | : -0.0614 kPa | 0.5413 kPa |
| Velocity Pressure .....                       | : 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | : 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.6027 kPa |
| Total Downstream Losses ..... | : | 0.6027 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0219I

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 19.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.6027            | 0.5818             | 5.8      | 0.0209               | 15.0987 E+04       |
| 2   | 0.6017            | 0.5808             | 5.8      | 0.0209               | 15.0987 E+04       |
| 3   | 0.5952            | 0.5743             | 5.8      | 0.0209               | 15.0987 E+04       |
| 4   | 0.5870            | 0.5661             | 5.8      | 0.0209               | 15.0987 E+04       |
| 5   | 0.5450            | 0.5241             | 5.8      | 0.0209               | 15.0987 E+04       |
| 6   | 0.5364            | 0.5155             | 5.8      | 0.0209               | 15.0987 E+04       |
| 7   | 0.5274            | 0.5141             | 4.7      | 0.0134               | 9.5640 E+04        |
| 8   | 0.5255            | 0.5121             | 4.7      | 0.0134               | 9.5640 E+04        |
| 9   | 0.5201            | 0.5068             | 4.7      | 0.0134               | 9.5640 E+04        |
| 10  | 0.5149            | 0.5015             | 4.7      | 0.0134               | 9.5640 E+04        |
| 11  | 0.5102            | 0.4968             | 4.7      | 0.0134               | 9.5640 E+04        |
| 12  | 0.5041            | 0.4993             | 2.8      | 0.0048               | 5.2439 E+04        |
| 13  | 0.5018            | 0.4970             | 2.8      | 0.0048               | 5.2439 E+04        |
| 14  | 0.5054            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |
| 15  | 0.5245            | 0.5111             | 4.7      | 0.0134               | 9.5640 E+04        |
| 16  | 0.5123            | 0.4989             | 4.7      | 0.0134               | 9.5640 E+04        |
| 17  | 0.5040            | 0.4992             | 2.8      | 0.0048               | 5.2439 E+04        |
| 18  | 0.5017            | 0.4969             | 2.8      | 0.0048               | 5.2439 E+04        |
| 19  | 0.5054            | 0.5006             | 2.8      | 0.0048               | 5.2439 E+04        |

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## SIZE DATA

System name : 0219R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 2   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 3   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 4   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 5   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 6   | REC   | 630.1           | 5.3      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 7   | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 8   | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 9   | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 10  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 11  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 12  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 13  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 14  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 15  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 16  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 17  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 18  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 19  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 20  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 21  | REC   | 315.0           | 4.2      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 22  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 23  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 24  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 25  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 26  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 27  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 28  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 29  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 30  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 31  | REC   | 157.5           | 4.2      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 32  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 33  | REC   | 105.0           | 2.8      | 250.0               | 150.0  | 250.0                 | 150.0  |
| 34  | REC   | 52.5            | 2.3      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## PRESSURE LOSS DATA

System name : 0219R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 2   | 0.0045      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0054        |
| 3   | 0.0045      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.0067        |
| 4   | 0.0045      | 0.0000                    | 0.0000                | 0.0021       | 0.0280        | 0.0000          | 0.0346        |
| 5   | 0.0045      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0070        |
| 6   | 0.0045      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0079        |
| 7   | 0.0032      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0072          | 0.0127        |
| 8   | 0.0033      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0041        |
| 9   | 0.0057      | 0.0000                    | 0.0000                | 0.0079       | 0.0000        | 0.0000          | 0.0136        |
| 10  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 11  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 12  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 13  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 14  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 15  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0115          | 0.0181        |
| 16  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 17  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 18  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 19  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 20  | 0.0032      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0042        |
| 21  | 0.0033      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0038        |
| 22  | 0.0057      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0068        |
| 23  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0045        |
| 24  | 0.0038      | 0.0000                    | 0.0000                | 0.0073       | 0.0000        | 0.0000          | 0.0111        |
| 25  | 0.0038      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0045        |
| 26  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 27  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 28  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 29  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |
| 30  | 0.0060      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0203          | 0.0269        |
| 31  | 0.0038      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0044        |
| 32  | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 33  | 0.0018      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0219        |
| 34  | -0.0012     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0090          | 0.0280        |

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## C-VALUE DATA

System name : 0219R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2680  | 0.0000            | 0.0000        | 0.0483 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2680  | 0.0000            | 0.0000        | 0.1282 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2680  | 0.0000            | 0.0000        | 0.1227 | 1.6533 | 0.0000  |
| 5   | 4   | 0.2680  | 0.0000            | 0.0000        | 0.1450 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2680  | 0.0000            | 0.0000        | 0.1955 | 0.0000 | 0.0000  |
| 7   | 6   | 0.1900  | 0.0000            | 0.0000        | 0.2156 | 0.0000 | 0.6636  |
| 8   | 7   | 0.3028  | 0.0000            | 0.0000        | 0.0783 | 0.0000 | 0.0000  |
| 9   | 8   | 0.5300  | 0.0000            | 0.0000        | 0.7250 | 0.0000 | 0.0000  |
| 10  | 9   | 0.3529  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 12  | 11  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 13  | 12  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 14  | 11  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 15  | 8   | 0.5500  | 0.0000            | 0.0000        | 0.0615 | 0.0000 | 1.0579  |
| 16  | 15  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 17  | 16  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 18  | 17  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 19  | 16  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 20  | 6   | 0.1900  | 0.0000            | 0.0000        | 0.0947 | 0.0000 | 0.0000  |
| 21  | 20  | 0.3028  | 0.0000            | 0.0000        | 0.0478 | 0.0000 | 0.0000  |
| 22  | 21  | 0.5300  | 0.0000            | 0.0000        | 0.1015 | 0.0000 | 0.0000  |
| 23  | 22  | 0.3529  | 0.0000            | 0.0000        | 0.0578 | 0.0000 | 0.0000  |
| 24  | 23  | 0.3529  | 0.0000            | 0.0000        | 0.6710 | 0.0000 | 0.0000  |
| 25  | 24  | 0.3529  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 0.0000  |
| 26  | 25  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 27  | 26  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 28  | 27  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 29  | 26  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |
| 30  | 21  | 0.5500  | 0.0000            | 0.0000        | 0.0654 | 0.0000 | 1.8690  |
| 31  | 30  | 0.3529  | 0.0000            | 0.0000        | 0.0523 | 0.0000 | 0.0000  |
| 32  | 31  | 0.4066  | 0.0000            | 0.0000        | 0.3385 | 0.0000 | 0.0000  |
| 33  | 32  | 0.3772  | 4.1511            | 0.0000        | 0.0218 | 0.0000 | 0.0000  |
| 34  | 31  | -0.1069 | 5.9799            | 0.0000        | 0.0308 | 0.0000 | 2.6958  |

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## FAN DATA PRINTOUT

System name : 0219R 26-02-20  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 630.1 L/s   |
| Fan Static Pressure .....                     | :           | 0.0682 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1297 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1297 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1297 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1911 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.1297 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1297 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0219R

26-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 34.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1297           | -0.1466            | 5.3      | 0.0169               | 13.5906 E+04       |
| 2   | -0.1289           | -0.1458            | 5.3      | 0.0169               | 13.5906 E+04       |
| 3   | -0.1235           | -0.1404            | 5.3      | 0.0169               | 13.5906 E+04       |
| 4   | -0.1168           | -0.1337            | 5.3      | 0.0169               | 13.5906 E+04       |
| 5   | -0.0822           | -0.0991            | 5.3      | 0.0169               | 13.5906 E+04       |
| 6   | -0.0752           | -0.0921            | 5.3      | 0.0169               | 13.5906 E+04       |
| 7   | -0.0601           | -0.0710            | 4.2      | 0.0108               | 8.6087 E+04        |
| 8   | -0.0546           | -0.0654            | 4.2      | 0.0108               | 8.6087 E+04        |
| 9   | -0.0504           | -0.0613            | 4.2      | 0.0108               | 6.0446 E+04        |
| 10  | -0.0368           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 11  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 12  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 13  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 14  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 15  | -0.0390           | -0.0498            | 4.2      | 0.0108               | 6.0446 E+04        |
| 16  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 17  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 18  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 19  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 20  | -0.0673           | -0.0782            | 4.2      | 0.0108               | 8.6087 E+04        |
| 21  | -0.0631           | -0.0739            | 4.2      | 0.0108               | 8.6087 E+04        |
| 22  | -0.0593           | -0.0701            | 4.2      | 0.0108               | 6.0446 E+04        |
| 23  | -0.0524           | -0.0633            | 4.2      | 0.0108               | 6.0446 E+04        |
| 24  | -0.0480           | -0.0588            | 4.2      | 0.0108               | 6.0446 E+04        |
| 25  | -0.0369           | -0.0477            | 4.2      | 0.0108               | 6.0446 E+04        |
| 26  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 27  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 28  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 29  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |
| 30  | -0.0390           | -0.0499            | 4.2      | 0.0108               | 6.0446 E+04        |
| 31  | -0.0324           | -0.0432            | 4.2      | 0.0108               | 6.0446 E+04        |
| 32  | -0.0280           | -0.0328            | 2.8      | 0.0048               | 4.0300 E+04        |
| 33  | -0.0219           | -0.0267            | 2.8      | 0.0048               | 4.0300 E+04        |
| 34  | -0.0189           | -0.0223            | 2.3      | 0.0033               | 2.6219 E+04        |

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## SIZE DATA

System name : 0220I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 19.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1206.0          | 6.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 2   | REC   | 1206.0          | 6.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 3   | REC   | 1206.0          | 6.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 4   | REC   | 1206.0          | 6.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 5   | REC   | 1206.0          | 6.0      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 6   | REC   | 603.0           | 4.5      | 450.0               | 300.0  | 450.0                 | 300.0  |
| 7   | REC   | 201.0           | 3.4      | 300.0               | 200.0  | 300.0                 | 200.0  |
| 8   | REC   | 201.0           | 3.4      | 300.0               | 200.0  | 300.0                 | 200.0  |
| 9   | REC   | 402.0           | 4.5      | 450.0               | 200.0  | 450.0                 | 200.0  |
| 10  | REC   | 402.0           | 4.5      | 450.0               | 200.0  | 450.0                 | 200.0  |
| 11  | REC   | 201.0           | 3.4      | 300.0               | 200.0  | 300.0                 | 200.0  |
| 12  | REC   | 201.0           | 3.4      | 300.0               | 200.0  | 300.0                 | 200.0  |
| 13  | REC   | 603.0           | 4.5      | 450.0               | 300.0  | 450.0                 | 300.0  |
| 14  | REC   | 201.0           | 3.4      | 300.0               | 200.0  | 300.0                 | 200.0  |
| 15  | REC   | 201.0           | 3.4      | 300.0               | 200.0  | 300.0                 | 200.0  |
| 16  | REC   | 402.0           | 4.5      | 450.0               | 200.0  | 450.0                 | 200.0  |
| 17  | REC   | 402.0           | 4.5      | 450.0               | 200.0  | 450.0                 | 200.0  |
| 18  | REC   | 201.0           | 3.4      | 300.0               | 200.0  | 300.0                 | 200.0  |
| 19  | REC   | 201.0           | 3.4      | 300.0               | 200.0  | 300.0                 | 200.0  |

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## PRESSURE LOSS DATA

System name : 0220I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 19.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 2   | 0.0058      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0066        |
| 3   | 0.0058      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0066        |
| 4   | 0.0058      | 0.0000                    | 0.0000                | 0.0023       | 0.0250        | 0.0000          | 0.0331        |
| 5   | 0.0058      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0075        |
| 6   | 0.0063      | 0.0000                    | 0.0000                | 0.0043       | 0.0000        | 0.0000          | 0.0106        |
| 7   | 0.0009      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0157          | 0.0182        |
| 8   | 0.0024      | 0.5000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.5041        |
| 9   | 0.0078      | 0.0000                    | 0.0000                | 0.0040       | 0.0000        | 0.0000          | 0.0118        |
| 10  | 0.0041      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0057        |
| 11  | 0.0035      | 0.5000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.5048        |
| 12  | 0.0035      | 0.5000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.5048        |
| 13  | 0.0063      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0030          | 0.0105        |
| 14  | 0.0009      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0160          | 0.0184        |
| 15  | 0.0024      | 0.5000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.5041        |
| 16  | 0.0078      | 0.0000                    | 0.0000                | 0.0038       | 0.0000        | 0.0000          | 0.0116        |
| 17  | 0.0041      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0059        |
| 18  | 0.0035      | 0.5000                    | 0.0000                | 0.0011       | 0.0000        | 0.0003          | 0.5049        |
| 19  | 0.0035      | 0.5000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.5049        |

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## C-VALUE DATA

System name : 0220I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 19.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0349 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2599 | 0.0000            | 0.0000        | 0.0349 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2599 | 0.0000            | 0.0000        | 0.0349 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2599 | 0.0000            | 0.0000        | 0.1047 | 1.1192 | 0.0000  |
| 5   | 4   | 0.2599 | 0.0000            | 0.0000        | 0.0774 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2825 | 0.0000            | 0.0000        | 0.3523 | 0.0000 | 0.0000  |
| 7   | 6   | 0.0728 | 0.0000            | 0.0000        | 0.2364 | 0.0000 | 2.2806  |
| 8   | 7   | 0.3444 | 72.5270           | 0.0000        | 0.2470 | 0.0000 | 0.0000  |
| 9   | 6   | 0.6396 | 0.0000            | 0.0000        | 0.3258 | 0.0000 | 0.0000  |
| 10  | 9   | 0.3324 | 0.0000            | 0.0000        | 0.1349 | 0.0000 | 0.0000  |
| 11  | 10  | 0.2833 | 72.5270           | 0.0000        | 0.1870 | 0.0000 | 0.0000  |
| 12  | 10  | 0.2833 | 72.5270           | 0.0000        | 0.1870 | 0.0000 | 0.0000  |
| 13  | 5   | 0.2825 | 0.0000            | 0.0000        | 0.1016 | 0.0000 | 0.2417  |
| 14  | 13  | 0.0728 | 0.0000            | 0.0000        | 0.2184 | 0.0000 | 2.3144  |
| 15  | 14  | 0.3444 | 72.5270           | 0.0000        | 0.2470 | 0.0000 | 0.0000  |
| 16  | 13  | 0.6396 | 0.0000            | 0.0000        | 0.3075 | 0.0000 | 0.0000  |
| 17  | 16  | 0.3324 | 0.0000            | 0.0000        | 0.1484 | 0.0000 | 0.0000  |
| 18  | 17  | 0.2833 | 72.5270           | 0.0000        | 0.1626 | 0.0000 | 0.0488  |
| 19  | 17  | 0.2833 | 72.5270           | 0.0000        | 0.2114 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0220I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 1206.0 L/s |
| Fan Static Pressure .....                     | :           | 0.5261 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.5876 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.5876 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.5876 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.5261 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.5876 kPa |
| Total Downstream Losses ..... | : | 0.5876 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0220I

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 19.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.5876            | 0.5652             | 6.0      | 0.0223               | 20.1702 E+04       |
| 2   | 0.5868            | 0.5645             | 6.0      | 0.0223               | 20.1702 E+04       |
| 3   | 0.5802            | 0.5579             | 6.0      | 0.0223               | 20.1702 E+04       |
| 4   | 0.5736            | 0.5513             | 6.0      | 0.0223               | 20.1702 E+04       |
| 5   | 0.5405            | 0.5181             | 6.0      | 0.0223               | 20.1702 E+04       |
| 6   | 0.5329            | 0.5207             | 4.5      | 0.0123               | 12.2317 E+04       |
| 7   | 0.5066            | 0.4997             | 3.4      | 0.0069               | 6.1158 E+04        |
| 8   | 0.5041            | 0.4972             | 3.4      | 0.0069               | 6.1158 E+04        |
| 9   | 0.5223            | 0.5101             | 4.5      | 0.0123               | 9.8394 E+04        |
| 10  | 0.5105            | 0.4982             | 4.5      | 0.0123               | 9.8394 E+04        |
| 11  | 0.5048            | 0.4979             | 3.4      | 0.0069               | 6.1158 E+04        |
| 12  | 0.5048            | 0.4979             | 3.4      | 0.0069               | 6.1158 E+04        |
| 13  | 0.5300            | 0.5177             | 4.5      | 0.0123               | 12.2317 E+04       |
| 14  | 0.5065            | 0.4996             | 3.4      | 0.0069               | 6.1158 E+04        |
| 15  | 0.5041            | 0.4972             | 3.4      | 0.0069               | 6.1158 E+04        |
| 16  | 0.5224            | 0.5102             | 4.5      | 0.0123               | 9.8394 E+04        |
| 17  | 0.5108            | 0.4986             | 4.5      | 0.0123               | 9.8394 E+04        |
| 18  | 0.5046            | 0.4977             | 3.4      | 0.0069               | 6.1158 E+04        |
| 19  | 0.5049            | 0.4980             | 3.4      | 0.0069               | 6.1158 E+04        |

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## SIZE DATA

System name : 0220R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 28.

| Sec | Shape | Airflow<br>Rate | Velocity | Metal |        | Airflow |        |
|-----|-------|-----------------|----------|-------|--------|---------|--------|
|     |       |                 |          | Width | Height | Width   | Height |
|     |       | L/s             | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 1085.7          | 5.4      | 500.0 | 400.0  | 500.0   | 400.0  |
| 2   | REC   | 1085.7          | 5.4      | 500.0 | 400.0  | 500.0   | 400.0  |
| 3   | REC   | 1085.7          | 5.4      | 500.0 | 400.0  | 500.0   | 400.0  |
| 4   | REC   | 1085.7          | 5.4      | 500.0 | 400.0  | 500.0   | 400.0  |
| 5   | REC   | 1085.7          | 5.4      | 500.0 | 400.0  | 500.0   | 400.0  |
| 6   | REC   | 465.3           | 4.7      | 500.0 | 200.0  | 500.0   | 200.0  |
| 7   | REC   | 465.3           | 4.7      | 500.0 | 200.0  | 500.0   | 200.0  |
| 8   | REC   | 465.3           | 4.7      | 500.0 | 200.0  | 500.0   | 200.0  |
| 9   | REC   | 310.2           | 4.4      | 350.0 | 200.0  | 350.0   | 200.0  |
| 10  | REC   | 310.2           | 4.4      | 350.0 | 200.0  | 350.0   | 200.0  |
| 11  | REC   | 155.1           | 3.9      | 200.0 | 200.0  | 200.0   | 200.0  |
| 12  | REC   | 155.1           | 3.9      | 200.0 | 200.0  | 200.0   | 200.0  |
| 13  | REC   | 155.1           | 3.9      | 200.0 | 200.0  | 200.0   | 200.0  |
| 14  | REC   | 155.1           | 3.9      | 200.0 | 200.0  | 200.0   | 200.0  |
| 15  | REC   | 155.1           | 3.9      | 200.0 | 200.0  | 200.0   | 200.0  |
| 16  | REC   | 620.4           | 5.2      | 600.0 | 200.0  | 600.0   | 200.0  |
| 17  | REC   | 620.4           | 5.2      | 600.0 | 200.0  | 600.0   | 200.0  |
| 18  | REC   | 620.4           | 5.2      | 600.0 | 200.0  | 600.0   | 200.0  |
| 19  | REC   | 465.3           | 4.7      | 500.0 | 200.0  | 500.0   | 200.0  |
| 20  | REC   | 465.3           | 4.7      | 500.0 | 200.0  | 500.0   | 200.0  |
| 21  | REC   | 310.2           | 4.4      | 350.0 | 200.0  | 350.0   | 200.0  |
| 22  | REC   | 310.2           | 4.4      | 350.0 | 200.0  | 350.0   | 200.0  |
| 23  | REC   | 155.1           | 3.9      | 200.0 | 200.0  | 200.0   | 200.0  |
| 24  | REC   | 155.1           | 3.9      | 200.0 | 200.0  | 200.0   | 200.0  |
| 25  | REC   | 155.1           | 3.9      | 200.0 | 200.0  | 200.0   | 200.0  |
| 26  | REC   | 155.1           | 3.9      | 200.0 | 200.0  | 200.0   | 200.0  |
| 27  | REC   | 155.1           | 3.9      | 200.0 | 200.0  | 200.0   | 200.0  |
| 28  | REC   | 155.1           | 3.9      | 200.0 | 200.0  | 200.0   | 200.0  |

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## PRESSURE LOSS DATA

System name : 0220R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 28.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0006        |
| 2   | 0.0047      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0053        |
| 3   | 0.0047      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0060        |
| 4   | 0.0047      | 0.0000                    | 0.0000                | 0.0019       | 0.0180        | 0.0000          | 0.0246        |
| 5   | 0.0047      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0052        |
| 6   | 0.0042      | 0.0000                    | 0.0000                | 0.0056       | 0.0000        | 0.0147          | 0.0245        |
| 7   | 0.0044      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0060        |
| 8   | 0.0009      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0027        |
| 9   | 0.0054      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0067        |
| 10  | 0.0018      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0036        |
| 11  | 0.0064      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.0086        |
| 12  | 0.0010      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0025        |
| 13  | 0.0029      | 0.0120                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0155        |
| 14  | 0.0066      | 0.0120                    | 0.0000                | 0.0008       | 0.0000        | 0.0072          | 0.0266        |
| 15  | -0.0014     | 0.0120                    | 0.0000                | 0.0007       | 0.0000        | 0.0257          | 0.0370        |
| 16  | 0.0036      | 0.0000                    | 0.0000                | 0.0096       | 0.0000        | 0.0000          | 0.0132        |
| 17  | 0.0051      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0074        |
| 18  | 0.0011      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0026        |
| 19  | 0.0053      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0064        |
| 20  | 0.0020      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0037        |
| 21  | 0.0054      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0075        |
| 22  | 0.0014      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0027        |
| 23  | 0.0064      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0084        |
| 24  | 0.0010      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0028        |
| 25  | 0.0029      | 0.0120                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0155        |
| 26  | 0.0066      | 0.0120                    | 0.0000                | 0.0007       | 0.0000        | 0.0073          | 0.0266        |
| 27  | -0.0014     | 0.0120                    | 0.0000                | 0.0008       | 0.0000        | 0.0254          | 0.0368        |
| 28  | -0.0080     | 0.0120                    | 0.0000                | 0.0006       | 0.0000        | 0.0423          | 0.0469        |

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## C-VALUE DATA

System name : 0220R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 28.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0354 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2599  | 0.0000            | 0.0000        | 0.0354 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2599  | 0.0000            | 0.0000        | 0.0708 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2599  | 0.0000            | 0.0000        | 0.1062 | 0.9943 | 0.0000  |
| 5   | 4   | 0.2599  | 0.0000            | 0.0000        | 0.0261 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2300  | 0.0000            | 0.0000        | 0.4188 | 0.0000 | 1.1073  |
| 7   | 6   | 0.3282  | 0.0000            | 0.0000        | 0.1240 | 0.0000 | 0.0000  |
| 8   | 7   | 0.0712  | 0.0000            | 0.0000        | 0.1302 | 0.0000 | 0.0000  |
| 9   | 8   | 0.4067  | 0.0000            | 0.0000        | 0.1043 | 0.0000 | 0.0000  |
| 10  | 9   | 0.1519  | 0.0000            | 0.0000        | 0.1503 | 0.0000 | 0.0000  |
| 11  | 10  | 0.5300  | 0.0000            | 0.0000        | 0.2434 | 0.0000 | 0.0000  |
| 12  | 11  | 0.1065  | 0.0000            | 0.0000        | 0.1627 | 0.0000 | 0.0000  |
| 13  | 12  | 0.3086  | 1.2993            | 0.0000        | 0.0727 | 0.0000 | 0.0000  |
| 14  | 10  | 0.5500  | 1.2993            | 0.0000        | 0.0873 | 0.0000 | 0.7804  |
| 15  | 8   | -0.1067 | 1.2993            | 0.0000        | 0.0744 | 0.0000 | 2.7817  |
| 16  | 5   | 0.1980  | 0.0000            | 0.0000        | 0.5865 | 0.0000 | 0.0000  |
| 17  | 16  | 0.3133  | 0.0000            | 0.0000        | 0.1372 | 0.0000 | 0.0000  |
| 18  | 17  | 0.0679  | 0.0000            | 0.0000        | 0.0886 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3250  | 0.0000            | 0.0000        | 0.0785 | 0.0000 | 0.0000  |
| 20  | 19  | 0.1510  | 0.0000            | 0.0000        | 0.1285 | 0.0000 | 0.0000  |
| 21  | 20  | 0.4067  | 0.0000            | 0.0000        | 0.1698 | 0.0000 | 0.0000  |
| 22  | 21  | 0.1139  | 0.0000            | 0.0000        | 0.1131 | 0.0000 | 0.0000  |
| 23  | 22  | 0.5300  | 0.0000            | 0.0000        | 0.2185 | 0.0000 | 0.0000  |
| 24  | 23  | 0.1065  | 0.0000            | 0.0000        | 0.1918 | 0.0000 | 0.0000  |
| 25  | 24  | 0.3086  | 1.2993            | 0.0000        | 0.0674 | 0.0000 | 0.0000  |
| 26  | 22  | 0.5500  | 1.2993            | 0.0000        | 0.0727 | 0.0000 | 0.7940  |
| 27  | 20  | -0.1067 | 1.2993            | 0.0000        | 0.0873 | 0.0000 | 2.7551  |
| 28  | 18  | -0.4900 | 1.2993            | 0.0000        | 0.0680 | 0.0000 | 4.5852  |

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## FAN DATA PRINTOUT

System name : 0220R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| Fan Airflow Rate .....                        | :           | 1085.7 L/s  |
| Fan Static Pressure .....                     | :           | 0.0505 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1119 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1119 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1119 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1733 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| Return System Loss .....    | : | -0.1119 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1119 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0220R

28-02-20

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 28.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1119           | -0.1300            | 5.4      | 0.0181               | 18.1582 E+04       |
| 2   | -0.1112           | -0.1294            | 5.4      | 0.0181               | 18.1582 E+04       |
| 3   | -0.1059           | -0.1240            | 5.4      | 0.0181               | 18.1582 E+04       |
| 4   | -0.0999           | -0.1180            | 5.4      | 0.0181               | 18.1582 E+04       |
| 5   | -0.0753           | -0.0934            | 5.4      | 0.0181               | 18.1582 E+04       |
| 6   | -0.0554           | -0.0687            | 4.7      | 0.0133               | 10.7465 E+04       |
| 7   | -0.0457           | -0.0590            | 4.7      | 0.0133               | 10.7465 E+04       |
| 8   | -0.0396           | -0.0529            | 4.7      | 0.0133               | 10.7465 E+04       |
| 9   | -0.0370           | -0.0490            | 4.4      | 0.0121               | 8.6986 E+04        |
| 10  | -0.0303           | -0.0424            | 4.4      | 0.0121               | 8.6986 E+04        |
| 11  | -0.0266           | -0.0359            | 3.9      | 0.0092               | 5.8094 E+04        |
| 12  | -0.0180           | -0.0272            | 3.9      | 0.0092               | 5.8094 E+04        |
| 13  | -0.0155           | -0.0248            | 3.9      | 0.0092               | 5.8094 E+04        |
| 14  | -0.0194           | -0.0287            | 3.9      | 0.0092               | 5.8094 E+04        |
| 15  | -0.0113           | -0.0205            | 3.9      | 0.0092               | 5.8094 E+04        |
| 16  | -0.0701           | -0.0865            | 5.2      | 0.0164               | 12.9424 E+04       |
| 17  | -0.0569           | -0.0733            | 5.2      | 0.0164               | 12.9424 E+04       |
| 18  | -0.0495           | -0.0659            | 5.2      | 0.0164               | 12.9424 E+04       |
| 19  | -0.0469           | -0.0602            | 4.7      | 0.0133               | 10.7465 E+04       |
| 20  | -0.0406           | -0.0539            | 4.7      | 0.0133               | 10.7465 E+04       |
| 21  | -0.0368           | -0.0489            | 4.4      | 0.0121               | 8.6986 E+04        |
| 22  | -0.0294           | -0.0414            | 4.4      | 0.0121               | 8.6986 E+04        |
| 23  | -0.0266           | -0.0359            | 3.9      | 0.0092               | 5.8094 E+04        |
| 24  | -0.0182           | -0.0275            | 3.9      | 0.0092               | 5.8094 E+04        |
| 25  | -0.0155           | -0.0247            | 3.9      | 0.0092               | 5.8094 E+04        |
| 26  | -0.0193           | -0.0285            | 3.9      | 0.0092               | 5.8094 E+04        |
| 27  | -0.0114           | -0.0206            | 3.9      | 0.0092               | 5.8094 E+04        |
| 28  | -0.0046           | -0.0138            | 3.9      | 0.0092               | 5.8094 E+04        |

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## SIZE DATA

System name : 0221I

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 61.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 2769.7          | 5.8      | 800.0               | 600.0  | 800.0                 | 600.0  |
| 2   | REC   | 2769.7          | 5.8      | 800.0               | 600.0  | 800.0                 | 600.0  |
| 3   | REC   | 2769.7          | 5.8      | 800.0               | 600.0  | 800.0                 | 600.0  |
| 4   | REC   | 2769.7          | 5.8      | 800.0               | 600.0  | 800.0                 | 600.0  |
| 5   | REC   | 1370.0          | 4.9      | 700.0               | 400.0  | 700.0                 | 400.0  |
| 6   | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 7   | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 8   | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 9   | REC   | 1240.4          | 5.2      | 600.0               | 400.0  | 600.0                 | 400.0  |
| 10  | REC   | 1110.7          | 4.6      | 600.0               | 400.0  | 600.0                 | 400.0  |
| 11  | REC   | 981.1           | 4.1      | 600.0               | 400.0  | 600.0                 | 400.0  |
| 12  | REC   | 721.8           | 4.0      | 450.0               | 400.0  | 450.0                 | 400.0  |
| 13  | REC   | 592.1           | 4.9      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 14  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 15  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 16  | REC   | 462.5           | 4.4      | 350.0               | 300.0  | 350.0                 | 300.0  |
| 17  | REC   | 332.8           | 3.8      | 350.0               | 250.0  | 350.0                 | 250.0  |
| 18  | REC   | 166.4           | 3.3      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 19  | REC   | 166.4           | 3.3      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 20  | REC   | 166.4           | 3.3      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 21  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 22  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 23  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 24  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 25  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 26  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 27  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 28  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 29  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 30  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 31  | REC   | 1399.7          | 5.0      | 700.0               | 400.0  | 700.0                 | 400.0  |
| 32  | REC   | 1301.2          | 4.6      | 700.0               | 400.0  | 700.0                 | 400.0  |
| 33  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 34  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 35  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 36  | REC   | 1171.6          | 4.9      | 600.0               | 400.0  | 600.0                 | 400.0  |
| 37  | REC   | 1041.9          | 4.7      | 550.0               | 400.0  | 550.0                 | 400.0  |
| 38  | REC   | 912.3           | 4.1      | 550.0               | 400.0  | 550.0                 | 400.0  |
| 39  | REC   | 782.6           | 4.1      | 550.0               | 350.0  | 550.0                 | 350.0  |
| 40  | REC   | 598.3           | 5.0      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 41  | REC   | 468.6           | 4.5      | 350.0               | 300.0  | 350.0                 | 300.0  |
| 42  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 43  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 44  | REC   | 339.0           | 4.5      | 250.0               | 300.0  | 250.0                 | 300.0  |
| 45  | REC   | 209.3           | 3.3      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 46  | REC   | 209.3           | 3.3      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 47  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 48  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 49  | REC   | 129.7           | 3.2      | 200.0               | 200.0  | 200.0                 | 200.0  |

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SIZE DATA

System name : 0221I 18-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 2 Of 2

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1. SIZE DATA FOR SECTIONS 1 THROUGH 61. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity <-----<br>m/s | Metal <-----><br>Width Height | <-----><br>Width Height | Airflow <-----><br>Rate | <-----><br>Width Height |
|-----|-------|-----------------|------------------------|-------------------------------|-------------------------|-------------------------|-------------------------|
|     |       | L/s             | m/s                    | mm                            | mm                      | mm                      | mm                      |
| 50  | REC   | 184.4           | 3.7                    | 250.0                         | 200.0                   | 250.0                   | 200.0                   |
| 51  | REC   | 54.7            | 2.4                    | 150.0                         | 150.0                   | 150.0                   | 150.0                   |
| 52  | REC   | 129.7           | 3.2                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 53  | REC   | 129.7           | 3.2                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 54  | REC   | 129.7           | 3.2                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 55  | REC   | 129.7           | 3.2                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 56  | REC   | 129.7           | 3.2                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 57  | REC   | 129.7           | 3.2                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 58  | REC   | 129.7           | 3.2                    | 200.0                         | 200.0                   | 200.0                   | 200.0                   |
| 59  | REC   | 98.5            | 3.3                    | 200.0                         | 150.0                   | 200.0                   | 150.0                   |
| 60  | REC   | 49.3            | 2.2                    | 150.0                         | 150.0                   | 150.0                   | 150.0                   |
| 61  | REC   | 49.3            | 2.2                    | 150.0                         | 150.0                   | 150.0                   | 150.0                   |

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## PRESSURE LOSS DATA

System name : 0221I

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 61.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0004        |
| 2   | 0.0054      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0058        |
| 3   | 0.0054      | 0.0000                    | 0.0000                | 0.0008       | 0.0120        | 0.0000          | 0.0183        |
| 4   | 0.0054      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0066        |
| 5   | 0.0060      | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0000          | 0.0093        |
| 6   | 0.0044      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0212          | 0.0286        |
| 7   | 0.0021      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0026        |
| 8   | 0.0021      | 0.5000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.5029        |
| 9   | 0.0039      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0048        |
| 10  | -0.0002     | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0021        |
| 11  | -0.0002     | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0018        |
| 12  | 0.0000      | 0.0000                    | 0.0000                | 0.0032       | 0.0000        | 0.0067          | 0.0100        |
| 13  | 0.0002      | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0000          | 0.0036        |
| 14  | 0.0045      | 0.0000                    | 0.0000                | 0.0029       | 0.0000        | 0.0020          | 0.0093        |
| 15  | 0.0021      | 0.5000                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.5024        |
| 16  | 0.0039      | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0045        |
| 17  | -0.0004     | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0022        |
| 18  | 0.0005      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0025        |
| 19  | 0.0023      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5026        |
| 20  | 0.0044      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0004          | 0.5051        |
| 21  | 0.0053      | 0.5000                    | 0.0000                | 0.0004       | 0.0000        | 0.0017          | 0.5073        |
| 22  | 0.0035      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0085          | 0.0125        |
| 23  | 0.0021      | 0.5000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.5029        |
| 24  | 0.0204      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0229        |
| 25  | 0.0021      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5024        |
| 26  | 0.0204      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0019          | 0.0228        |
| 27  | 0.0021      | 0.5000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.5025        |
| 28  | 0.0071      | 0.5000                    | 0.0000                | 0.0006       | 0.0000        | 0.0194          | 0.5271        |
| 29  | 0.0090      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0170          | 0.0265        |
| 30  | 0.0021      | 0.5000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.5027        |
| 31  | 0.0060      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0086          | 0.0155        |
| 32  | -0.0002     | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0013        |
| 33  | 0.0040      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0140          | 0.0210        |
| 34  | 0.0021      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0027        |
| 35  | 0.0021      | 0.5000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.5029        |
| 36  | 0.0035      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0047        |
| 37  | -0.0002     | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.0020        |
| 38  | -0.0002     | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0019        |
| 39  | -0.0002     | 0.0000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0003        |
| 40  | -0.0001     | 0.0000                    | 0.0000                | 0.0049       | 0.0000        | 0.0000          | 0.0048        |
| 41  | -0.0003     | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0000          | 0.0030        |
| 42  | 0.0037      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0008          | 0.0073        |
| 43  | 0.0021      | 0.5000                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.5024        |
| 44  | 0.0034      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0042        |
| 45  | -0.0003     | 0.0000                    | 0.0000                | 0.0035       | 0.0000        | 0.0000          | 0.0032        |
| 46  | 0.0021      | 0.5000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.5024        |
| 47  | 0.0041      | 0.5000                    | 0.0000                | 0.0004       | 0.0000        | 0.0011          | 0.5056        |
| 48  | 0.0062      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0034          | 0.0102        |
| 49  | 0.0021      | 0.5000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.5026        |
| 50  | 0.0041      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0060          | 0.0123        |



## PRESSURE LOSS DATA

System name : 0221I

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 61. (Continued)

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 51  | 0.0025      | 0.5000                    | 0.0000                | 0.0013       | 0.0000        | 0.0015          | 0.5053        |
| 52  | 0.0023      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0028        |
| 53  | 0.0021      | 0.5000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.5025        |
| 54  | 0.0056      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0092          | 0.0154        |
| 55  | 0.0021      | 0.5000                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.5025        |
| 56  | 0.0074      | 0.5000                    | 0.0000                | 0.0006       | 0.0000        | 0.0118          | 0.5198        |
| 57  | 0.0080      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0100          | 0.0186        |
| 58  | 0.0021      | 0.5000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.5032        |
| 59  | 0.0084      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0153          | 0.0253        |
| 60  | 0.0018      | 0.5000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.5026        |
| 61  | 0.0018      | 0.5000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.5026        |

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## C-VALUE DATA

System name : 0221I

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 61.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0207 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2645  | 0.0000            | 0.0000        | 0.0207 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2645  | 0.0000            | 0.0000        | 0.0414 | 0.5867 | 0.0000  |
| 4   | 3   | 0.2645  | 0.0000            | 0.0000        | 0.0586 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2917  | 0.0000            | 0.0000        | 0.2300 | 0.0000 | 0.0000  |
| 6   | 5   | 0.3000  | 0.0000            | 0.0000        | 0.4601 | 0.0000 | 3.2813  |
| 7   | 6   | 0.3186  | 0.0000            | 0.0000        | 0.0878 | 0.0000 | 0.0000  |
| 8   | 7   | 0.3186  | 77.4755           | 0.0000        | 0.1281 | 0.0000 | 0.0000  |
| 9   | 5   | 0.2643  | 0.0000            | 0.0000        | 0.0573 | 0.0000 | 0.0000  |
| 10  | 9   | -0.0109 | 0.0000            | 0.0000        | 0.1768 | 0.0000 | 0.0000  |
| 11  | 10  | -0.0133 | 0.0000            | 0.0000        | 0.1905 | 0.0000 | 0.0000  |
| 12  | 11  | 0.0019  | 0.0000            | 0.0000        | 0.3256 | 0.0000 | 0.6808  |
| 13  | 12  | 0.0163  | 0.0000            | 0.0000        | 0.2286 | 0.0000 | 0.0000  |
| 14  | 13  | 0.3000  | 0.0000            | 0.0000        | 0.4483 | 0.0000 | 0.3041  |
| 15  | 14  | 0.3186  | 77.4755           | 0.0000        | 0.0577 | 0.0000 | 0.0000  |
| 16  | 13  | 0.2625  | 0.0000            | 0.0000        | 0.0455 | 0.0000 | 0.0000  |
| 17  | 16  | -0.0349 | 0.0000            | 0.0000        | 0.2908 | 0.0000 | 0.0000  |
| 18  | 17  | 0.0514  | 0.0000            | 0.0000        | 0.3027 | 0.0000 | 0.0000  |
| 19  | 18  | 0.3349  | 73.4891           | 0.0000        | 0.0501 | 0.0000 | 0.0000  |
| 20  | 17  | 0.4914  | 73.4891           | 0.0000        | 0.0501 | 0.0000 | 0.0629  |
| 21  | 16  | 0.4418  | 77.4755           | 0.0000        | 0.0577 | 0.0000 | 0.2583  |
| 22  | 12  | 0.3500  | 0.0000            | 0.0000        | 0.0878 | 0.0000 | 1.3122  |
| 23  | 22  | 0.3186  | 77.4755           | 0.0000        | 0.1245 | 0.0000 | 0.0000  |
| 24  | 11  | 1.9847  | 0.0000            | 0.0000        | 0.3969 | 0.0000 | 0.0000  |
| 25  | 24  | 0.3186  | 77.4755           | 0.0000        | 0.0498 | 0.0000 | 0.0000  |
| 26  | 11  | 1.9847  | 0.0000            | 0.0000        | 0.0878 | 0.0000 | 0.2875  |
| 27  | 26  | 0.3186  | 77.4755           | 0.0000        | 0.0713 | 0.0000 | 0.0000  |
| 28  | 10  | 0.5416  | 77.4755           | 0.0000        | 0.0878 | 0.0000 | 3.0056  |
| 29  | 9   | 0.5477  | 0.0000            | 0.0000        | 0.0878 | 0.0000 | 2.6272  |
| 30  | 29  | 0.3186  | 77.4755           | 0.0000        | 0.1041 | 0.0000 | 0.0000  |
| 31  | 4   | 0.2917  | 0.0000            | 0.0000        | 0.0622 | 0.0000 | 0.5608  |
| 32  | 31  | -0.0100 | 0.0000            | 0.0000        | 0.1122 | 0.0000 | 0.0000  |
| 33  | 32  | 0.3000  | 0.0000            | 0.0000        | 0.4601 | 0.0000 | 2.1742  |
| 34  | 33  | 0.3186  | 0.0000            | 0.0000        | 0.0971 | 0.0000 | 0.0000  |
| 35  | 34  | 0.3186  | 77.4755           | 0.0000        | 0.1281 | 0.0000 | 0.0000  |
| 36  | 32  | 0.2643  | 0.0000            | 0.0000        | 0.0812 | 0.0000 | 0.0000  |
| 37  | 36  | -0.0121 | 0.0000            | 0.0000        | 0.1605 | 0.0000 | 0.0000  |
| 38  | 37  | -0.0149 | 0.0000            | 0.0000        | 0.1982 | 0.0000 | 0.0000  |
| 39  | 38  | -0.0184 | 0.0000            | 0.0000        | 0.0517 | 0.0000 | 0.0000  |
| 40  | 39  | -0.0090 | 0.0000            | 0.0000        | 0.3205 | 0.0000 | 0.0000  |
| 41  | 40  | -0.0217 | 0.0000            | 0.0000        | 0.2748 | 0.0000 | 0.0000  |
| 42  | 41  | 0.3000  | 0.0000            | 0.0000        | 0.4391 | 0.0000 | 0.1290  |
| 43  | 42  | 0.3186  | 77.4755           | 0.0000        | 0.0577 | 0.0000 | 0.0000  |
| 44  | 41  | 0.2786  | 0.0000            | 0.0000        | 0.0618 | 0.0000 | 0.0000  |
| 45  | 44  | -0.0269 | 0.0000            | 0.0000        | 0.5115 | 0.0000 | 0.0000  |
| 46  | 45  | 0.3043  | 72.5790           | 0.0000        | 0.0434 | 0.0000 | 0.0000  |
| 47  | 44  | 0.3249  | 77.4755           | 0.0000        | 0.0577 | 0.0000 | 0.1757  |
| 48  | 40  | 0.4056  | 0.0000            | 0.0000        | 0.0971 | 0.0000 | 0.5270  |
| 49  | 48  | 0.3186  | 77.4755           | 0.0000        | 0.0808 | 0.0000 | 0.0000  |
| 50  | 39  | 0.4052  | 0.0000            | 0.0000        | 0.2582 | 0.0000 | 0.7179  |
| 51  | 50  | 0.3000  | 137.7145          | 0.0000        | 0.3580 | 0.0000 | 0.4211  |
| 52  | 50  | 0.2700  | 0.0000            | 0.0000        | 0.0871 | 0.0000 | 0.0000  |
| 53  | 52  | 0.3186  | 77.4755           | 0.0000        | 0.0714 | 0.0000 | 0.0000  |



## C-VALUE DATA

System name : 0221I

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. C-VALUE DATA FOR SECTIONS 1 THROUGH 61. (Continued)

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 54  | 38  | 0.5289 | 0.0000            | 0.0000        | 0.0971 | 0.0000 | 1.4206  |
| 55  | 54  | 0.3186 | 77.4755           | 0.0000        | 0.0763 | 0.0000 | 0.0000  |
| 56  | 37  | 0.5378 | 77.4755           | 0.0000        | 0.0971 | 0.0000 | 1.8256  |
| 57  | 36  | 0.5447 | 0.0000            | 0.0000        | 0.0971 | 0.0000 | 1.5548  |
| 58  | 57  | 0.3186 | 77.4755           | 0.0000        | 0.1800 | 0.0000 | 0.0000  |
| 59  | 31  | 0.5500 | 0.0000            | 0.0000        | 0.2417 | 0.0000 | 2.3046  |
| 60  | 59  | 0.2750 | 169.8799          | 0.0000        | 0.2564 | 0.0000 | 0.0000  |
| 61  | 59  | 0.2750 | 169.8799          | 0.0000        | 0.2565 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0221I

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 2769.7 L/s |
| Fan Static Pressure .....                     | :           | 0.5131 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.5745 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.5745 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.5745 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.5131 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.5745 kPa |
| Total Downstream Losses ..... | : | 0.5745 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 0221I

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 61.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.5745            | 0.5541             | 5.8      | 0.0205               | 29.8707 E+04       |
| 2   | 0.5741            | 0.5537             | 5.8      | 0.0205               | 29.8707 E+04       |
| 3   | 0.5683            | 0.5478             | 5.8      | 0.0205               | 29.8707 E+04       |
| 4   | 0.5500            | 0.5296             | 5.8      | 0.0205               | 29.8707 E+04       |
| 5   | 0.5434            | 0.5287             | 4.9      | 0.0147               | 19.2087 E+04       |
| 6   | 0.5129            | 0.5064             | 3.2      | 0.0065               | 4.8562 E+04        |
| 7   | 0.5055            | 0.4991             | 3.2      | 0.0065               | 4.8562 E+04        |
| 8   | 0.5029            | 0.4964             | 3.2      | 0.0065               | 4.8562 E+04        |
| 9   | 0.5341            | 0.5177             | 5.2      | 0.0164               | 18.8701 E+04       |
| 10  | 0.5292            | 0.5161             | 4.6      | 0.0132               | 16.8977 E+04       |
| 11  | 0.5271            | 0.5168             | 4.1      | 0.0103               | 14.9253 E+04       |
| 12  | 0.5186            | 0.5087             | 4.0      | 0.0099               | 12.7384 E+04       |
| 13  | 0.5154            | 0.5004             | 4.9      | 0.0150               | 12.7714 E+04       |
| 14  | 0.5098            | 0.5034             | 3.2      | 0.0065               | 4.8562 E+04        |
| 15  | 0.5024            | 0.4960             | 3.2      | 0.0065               | 4.8562 E+04        |
| 16  | 0.5118            | 0.4999             | 4.4      | 0.0119               | 10.6832 E+04       |
| 17  | 0.5073            | 0.4984             | 3.8      | 0.0089               | 8.3985 E+04        |
| 18  | 0.5051            | 0.4983             | 3.3      | 0.0068               | 5.5660 E+04        |
| 19  | 0.5026            | 0.4958             | 3.3      | 0.0068               | 5.5660 E+04        |
| 20  | 0.5047            | 0.4979             | 3.3      | 0.0068               | 5.5660 E+04        |
| 21  | 0.5056            | 0.4992             | 3.2      | 0.0065               | 4.8562 E+04        |
| 22  | 0.5069            | 0.5004             | 3.2      | 0.0065               | 4.8562 E+04        |
| 23  | 0.5029            | 0.4964             | 3.2      | 0.0065               | 4.8562 E+04        |
| 24  | 0.5253            | 0.5189             | 3.2      | 0.0065               | 4.8562 E+04        |
| 25  | 0.5024            | 0.4959             | 3.2      | 0.0065               | 4.8562 E+04        |
| 26  | 0.5235            | 0.5170             | 3.2      | 0.0065               | 4.8562 E+04        |
| 27  | 0.5025            | 0.4961             | 3.2      | 0.0065               | 4.8562 E+04        |
| 28  | 0.5077            | 0.5012             | 3.2      | 0.0065               | 4.8562 E+04        |
| 29  | 0.5123            | 0.5058             | 3.2      | 0.0065               | 4.8562 E+04        |
| 30  | 0.5027            | 0.4963             | 3.2      | 0.0065               | 4.8562 E+04        |
| 31  | 0.5348            | 0.5195             | 5.0      | 0.0154               | 19.6251 E+04       |
| 32  | 0.5279            | 0.5146             | 4.6      | 0.0133               | 18.2441 E+04       |
| 33  | 0.5125            | 0.5061             | 3.2      | 0.0065               | 4.8562 E+04        |
| 34  | 0.5056            | 0.4991             | 3.2      | 0.0065               | 4.8562 E+04        |
| 35  | 0.5029            | 0.4964             | 3.2      | 0.0065               | 4.8562 E+04        |
| 36  | 0.5265            | 0.5119             | 4.9      | 0.0146               | 17.8234 E+04       |
| 37  | 0.5219            | 0.5081             | 4.7      | 0.0138               | 16.5881 E+04       |
| 38  | 0.5198            | 0.5093             | 4.1      | 0.0106               | 14.5239 E+04       |
| 39  | 0.5179            | 0.5078             | 4.1      | 0.0102               | 13.2778 E+04       |
| 40  | 0.5176            | 0.5023             | 5.0      | 0.0153               | 12.9040 E+04       |
| 41  | 0.5128            | 0.5006             | 4.5      | 0.0122               | 10.8252 E+04       |
| 42  | 0.5089            | 0.5025             | 3.2      | 0.0065               | 4.8562 E+04        |
| 43  | 0.5024            | 0.4960             | 3.2      | 0.0065               | 4.8562 E+04        |
| 44  | 0.5098            | 0.4972             | 4.5      | 0.0125               | 9.2620 E+04        |
| 45  | 0.5056            | 0.4987             | 3.3      | 0.0069               | 6.2716 E+04        |
| 46  | 0.5024            | 0.4955             | 3.3      | 0.0069               | 6.2716 E+04        |
| 47  | 0.5044            | 0.4980             | 3.2      | 0.0065               | 4.8562 E+04        |
| 48  | 0.5094            | 0.5029             | 3.2      | 0.0065               | 4.8562 E+04        |
| 49  | 0.5026            | 0.4961             | 3.2      | 0.0065               | 4.8562 E+04        |
| 50  | 0.5116            | 0.5033             | 3.7      | 0.0084               | 6.1665 E+04        |
| 51  | 0.5038            | 0.5002             | 2.4      | 0.0036               | 2.7318 E+04        |



## PRESSURE LOSS DATA II

System name : 0221I

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 61. (Continued)

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 52  | 0.5053            | 0.4989             | 3.2      | 0.0065               | 4.8562 E+04        |
| 53  | 0.5025            | 0.4961             | 3.2      | 0.0065               | 4.8562 E+04        |
| 54  | 0.5088            | 0.5023             | 3.2      | 0.0065               | 4.8562 E+04        |
| 55  | 0.5025            | 0.4961             | 3.2      | 0.0065               | 4.8562 E+04        |
| 56  | 0.5080            | 0.5016             | 3.2      | 0.0065               | 4.8562 E+04        |
| 57  | 0.5118            | 0.5054             | 3.2      | 0.0065               | 4.8562 E+04        |
| 58  | 0.5032            | 0.4968             | 3.2      | 0.0065               | 4.8562 E+04        |
| 59  | 0.5126            | 0.5060             | 3.3      | 0.0066               | 4.2492 E+04        |
| 60  | 0.5026            | 0.4996             | 2.2      | 0.0029               | 2.4596 E+04        |
| 61  | 0.5026            | 0.4996             | 2.2      | 0.0029               | 2.4596 E+04        |

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## SIZE DATA

System name : 0221R

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

Page 1 Of 2

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 55.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----><br>Width Height | <----- Airflow -----><br>Width Height |
|-----|-------|-----------------|----------|-------------------------------------|---------------------------------------|
|     |       | L/s             | m/s      | mm mm                               | mm mm                                 |
| 1   | REC   | 2493.0          | 5.2      | 800.0 600.0                         | 800.0 600.0                           |
| 2   | REC   | 2493.0          | 5.2      | 800.0 600.0                         | 800.0 600.0                           |
| 3   | REC   | 2493.0          | 5.2      | 800.0 600.0                         | 800.0 600.0                           |
| 4   | REC   | 2493.0          | 5.2      | 800.0 600.0                         | 800.0 600.0                           |
| 5   | REC   | 2493.0          | 5.2      | 800.0 600.0                         | 800.0 600.0                           |
| 6   | REC   | 1125.6          | 6.0      | 750.0 250.0                         | 750.0 250.0                           |
| 7   | REC   | 1042.3          | 6.0      | 700.0 250.0                         | 700.0 250.0                           |
| 8   | REC   | 192.8           | 3.1      | 250.0 250.0                         | 250.0 250.0                           |
| 9   | REC   | 192.8           | 3.9      | 250.0 200.0                         | 250.0 200.0                           |
| 10  | REC   | 849.5           | 5.7      | 600.0 250.0                         | 600.0 250.0                           |
| 11  | REC   | 849.5           | 5.7      | 600.0 250.0                         | 600.0 250.0                           |
| 12  | REC   | 656.7           | 5.3      | 500.0 250.0                         | 500.0 250.0                           |
| 13  | REC   | 585.7           | 5.2      | 450.0 250.0                         | 450.0 250.0                           |
| 14  | REC   | 367.9           | 4.6      | 400.0 200.0                         | 400.0 200.0                           |
| 15  | REC   | 367.9           | 4.6      | 400.0 200.0                         | 400.0 200.0                           |
| 16  | REC   | 175.1           | 3.5      | 250.0 200.0                         | 250.0 200.0                           |
| 17  | REC   | 175.1           | 3.5      | 250.0 200.0                         | 250.0 200.0                           |
| 18  | REC   | 192.8           | 3.9      | 250.0 200.0                         | 250.0 200.0                           |
| 19  | REC   | 25.0            | 1.1      | 150.0 150.0                         | 150.0 150.0                           |
| 20  | REC   | 192.8           | 3.9      | 250.0 200.0                         | 250.0 200.0                           |
| 21  | REC   | 192.8           | 3.9      | 250.0 200.0                         | 250.0 200.0                           |
| 22  | REC   | 71.0            | 3.2      | 150.0 150.0                         | 150.0 150.0                           |
| 23  | REC   | 25.0            | 1.1      | 150.0 150.0                         | 150.0 150.0                           |
| 24  | REC   | 25.0            | 1.1      | 150.0 150.0                         | 150.0 150.0                           |
| 25  | REC   | 25.0            | 1.1      | 150.0 150.0                         | 150.0 150.0                           |
| 26  | REC   | 46.0            | 2.0      | 150.0 150.0                         | 150.0 150.0                           |
| 27  | REC   | 192.8           | 3.9      | 250.0 200.0                         | 250.0 200.0                           |
| 28  | REC   | 83.3            | 3.7      | 150.0 150.0                         | 150.0 150.0                           |
| 29  | REC   | 83.3            | 3.7      | 150.0 150.0                         | 150.0 150.0                           |
| 30  | REC   | 83.3            | 3.7      | 150.0 150.0                         | 150.0 150.0                           |
| 31  | REC   | 1367.4          | 6.2      | 550.0 400.0                         | 550.0 400.0                           |
| 32  | REC   | 192.8           | 4.3      | 300.0 150.0                         | 300.0 150.0                           |
| 33  | REC   | 192.8           | 3.9      | 250.0 200.0                         | 250.0 200.0                           |
| 34  | REC   | 1174.6          | 6.1      | 550.0 350.0                         | 550.0 350.0                           |
| 35  | REC   | 1124.6          | 5.8      | 550.0 350.0                         | 550.0 350.0                           |
| 36  | REC   | 931.8           | 5.6      | 550.0 300.0                         | 550.0 300.0                           |
| 37  | REC   | 739.0           | 5.4      | 550.0 250.0                         | 550.0 250.0                           |
| 38  | REC   | 496.2           | 5.7      | 350.0 250.0                         | 350.0 250.0                           |
| 39  | REC   | 471.2           | 5.4      | 350.0 250.0                         | 350.0 250.0                           |
| 40  | REC   | 471.2           | 5.4      | 350.0 250.0                         | 350.0 250.0                           |
| 41  | REC   | 278.4           | 4.5      | 250.0 250.0                         | 250.0 250.0                           |
| 42  | REC   | 139.2           | 3.5      | 200.0 200.0                         | 200.0 200.0                           |
| 43  | REC   | 139.2           | 3.5      | 200.0 200.0                         | 200.0 200.0                           |
| 44  | REC   | 139.2           | 3.5      | 200.0 200.0                         | 200.0 200.0                           |
| 45  | REC   | 192.8           | 3.9      | 250.0 200.0                         | 250.0 200.0                           |
| 46  | REC   | 25.0            | 1.1      | 150.0 150.0                         | 150.0 150.0                           |
| 47  | REC   | 242.8           | 4.9      | 250.0 200.0                         | 250.0 200.0                           |
| 48  | REC   | 50.0            | 2.2      | 150.0 150.0                         | 150.0 150.0                           |
| 49  | REC   | 50.0            | 2.2      | 150.0 150.0                         | 150.0 150.0                           |

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SIZE DATA

System name : 0221R 18-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 2 Of 2  
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1. SIZE DATA FOR SECTIONS 1 THROUGH 55. (Continued)

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 50  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 51  | REC   | 192.8           | 3.9      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 52  | REC   | 192.8           | 4.8      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 53  | REC   | 192.8           | 3.9      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 54  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 55  | REC   | 50.0            | 2.2      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## PRESSURE LOSS DATA

System name : 0221R

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 55.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0003        |
| 2   | 0.0044      | 0.0000                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0047        |
| 3   | 0.0044      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0054        |
| 4   | 0.0044      | 0.0000                    | 0.0000                | 0.0010       | 0.0100        | 0.0000          | 0.0154        |
| 5   | 0.0044      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0049        |
| 6   | 0.0038      | 0.0000                    | 0.0000                | 0.0040       | 0.0000        | 0.0067          | 0.0145        |
| 7   | 0.0026      | 0.0000                    | 0.0000                | 0.0025       | 0.0000        | 0.0000          | 0.0051        |
| 8   | 0.0050      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0559          | 0.0616        |
| 9   | 0.0030      | 0.0140                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0187        |
| 10  | 0.0025      | 0.0000                    | 0.0000                | 0.0062       | 0.0000        | 0.0000          | 0.0087        |
| 11  | 0.0000      | 0.0000                    | 0.0000                | 0.0035       | 0.0000        | 0.0000          | 0.0035        |
| 12  | 0.0059      | 0.0000                    | 0.0000                | 0.0058       | 0.0000        | 0.0000          | 0.0117        |
| 13  | 0.0029      | 0.0000                    | 0.0000                | 0.0047       | 0.0000        | 0.0000          | 0.0075        |
| 14  | 0.0135      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0155        |
| 15  | 0.0043      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0056        |
| 16  | 0.0070      | 0.0000                    | 0.0000                | 0.0047       | 0.0000        | 0.0000          | 0.0117        |
| 17  | 0.0025      | 0.0120                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0159        |
| 18  | 0.0086      | 0.0140                    | 0.0000                | 0.0002       | 0.0000        | 0.0047          | 0.0276        |
| 19  | -0.0103     | 0.0170                    | 0.0000                | 0.0004       | 0.0000        | 0.0416          | 0.0488        |
| 20  | 0.0192      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0101          | 0.0314        |
| 21  | 0.0030      | 0.0140                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0174        |
| 22  | -0.0139     | 0.0000                    | 0.0000                | 0.0029       | 0.0000        | 0.0425          | 0.0315        |
| 23  | 0.0035      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0001          | 0.0040        |
| 24  | 0.0003      | 0.0000                    | 0.0000                | 0.0002       | 0.0030        | 0.0000          | 0.0035        |
| 25  | 0.0003      | 0.0170                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0174        |
| 26  | 0.0077      | 0.0170                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0249        |
| 27  | -0.0114     | 0.0140                    | 0.0000                | 0.0017       | 0.0000        | 0.0637          | 0.0681        |
| 28  | -0.0184     | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0762          | 0.0596        |
| 29  | 0.0027      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0041        |
| 30  | 0.0027      | 0.0170                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0217        |
| 31  | 0.0038      | 0.0000                    | 0.0000                | 0.0075       | 0.0000        | 0.0000          | 0.0113        |
| 32  | 0.0055      | 0.0000                    | 0.0000                | 0.0015       | 0.0000        | 0.0629          | 0.0699        |
| 33  | 0.0030      | 0.0140                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0187        |
| 34  | 0.0026      | 0.0000                    | 0.0000                | 0.0060       | 0.0000        | 0.0000          | 0.0086        |
| 35  | 0.0016      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0047        |
| 36  | 0.0050      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0081        |
| 37  | 0.0054      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0080        |
| 38  | 0.0071      | 0.0000                    | 0.0000                | 0.0064       | 0.0000        | 0.0000          | 0.0135        |
| 39  | 0.0016      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0042        |
| 40  | 0.0051      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0067        |
| 41  | 0.0083      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0090        |
| 42  | 0.0065      | 0.0000                    | 0.0000                | 0.0046       | 0.0000        | 0.0000          | 0.0111        |
| 43  | 0.0023      | 0.0120                    | 0.0000                | 0.0003       | 0.0000        | 0.0000          | 0.0146        |
| 44  | 0.0067      | 0.0120                    | 0.0000                | 0.0003       | 0.0000        | 0.0067          | 0.0257        |
| 45  | 0.0054      | 0.0140                    | 0.0000                | 0.0003       | 0.0000        | 0.0150          | 0.0348        |
| 46  | -0.0164     | 0.0170                    | 0.0000                | 0.0004       | 0.0000        | 0.0446          | 0.0457        |
| 47  | -0.0024     | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0165          | 0.0172        |
| 48  | 0.0087      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0146          | 0.0234        |
| 49  | 0.0000      | 0.0000                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0002        |
| 50  | 0.0011      | 0.0170                    | 0.0000                | 0.0002       | 0.0000        | 0.0000          | 0.0183        |



PRESSURE LOSS DATA

System name : 0221R 18-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 2 Of 2  
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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 55. (Continued)

| Sec   | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-------|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|       | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 51    | 0.0276      | 0.0140                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0419        |
| 52    | -0.0128     | 0.0140                    | 0.0000                | 0.0120       | 0.0000        | 0.0540          | 0.0672        |
| 53    | -0.0152     | 0.0140                    | 0.0000                | 0.0017       | 0.0000        | 0.0747          | 0.0753        |
| 54    | -0.0165     | 0.0000                    | 0.0000                | 0.0025       | 0.0030        | 0.0719          | 0.0610        |
| 55    | 0.0011      | 0.0170                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0190        |
| ***** |             |                           |                       |              |               |                 |               |



## C-VALUE DATA

System name : 0221R

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 55.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0210 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2645  | 0.0000            | 0.0000        | 0.0210 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2645  | 0.0000            | 0.0000        | 0.0630 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2645  | 0.0000            | 0.0000        | 0.0630 | 0.6035 | 0.0000  |
| 5   | 4   | 0.2645  | 0.0000            | 0.0000        | 0.0342 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2300  | 0.0000            | 0.0000        | 0.1827 | 0.0000 | 0.3010  |
| 7   | 6   | 0.1184  | 0.0000            | 0.0000        | 0.1135 | 0.0000 | 0.0000  |
| 8   | 7   | 0.2300  | 0.0000            | 0.0000        | 0.1145 | 0.0000 | 9.5584  |
| 9   | 8   | 0.3259  | 1.5328            | 0.0000        | 0.1877 | 0.0000 | 0.0000  |
| 10  | 7   | 0.1157  | 0.0000            | 0.0000        | 0.3138 | 0.0000 | 0.0000  |
| 11  | 10  | 0.0000  | 0.0000            | 0.0000        | 0.1772 | 0.0000 | 0.0000  |
| 12  | 11  | 0.2996  | 0.0000            | 0.0000        | 0.3438 | 0.0000 | 0.0000  |
| 13  | 12  | 0.1689  | 0.0000            | 0.0000        | 0.2813 | 0.0000 | 0.0000  |
| 14  | 13  | 0.8134  | 0.0000            | 0.0000        | 0.1528 | 0.0000 | 0.0000  |
| 15  | 14  | 0.3290  | 0.0000            | 0.0000        | 0.1029 | 0.0000 | 0.0000  |
| 16  | 15  | 0.5396  | 0.0000            | 0.0000        | 0.6256 | 0.0000 | 0.0000  |
| 17  | 16  | 0.3316  | 1.5925            | 0.0000        | 0.1866 | 0.0000 | 0.0000  |
| 18  | 15  | 0.6653  | 1.5328            | 0.0000        | 0.0258 | 0.0000 | 0.5200  |
| 19  | 13  | -0.6195 | 22.4158           | 0.0000        | 0.5895 | 0.0000 | 54.9050 |
| 20  | 13  | 1.1504  | 0.0000            | 0.0000        | 0.2336 | 0.0000 | 1.1082  |
| 21  | 20  | 0.3259  | 1.5328            | 0.0000        | 0.0419 | 0.0000 | 0.0000  |
| 22  | 12  | -0.8178 | 0.0000            | 0.0000        | 0.4699 | 0.0000 | 6.9403  |
| 23  | 22  | 0.5796  | 0.0000            | 0.0000        | 0.4629 | 0.0000 | 0.0892  |
| 24  | 23  | 0.4080  | 0.0000            | 0.0000        | 0.2686 | 3.9557 | 0.0000  |
| 25  | 24  | 0.4080  | 22.4158           | 0.0000        | 0.0958 | 0.0000 | 0.0000  |
| 26  | 22  | 1.2551  | 6.6209            | 0.0000        | 0.0709 | 0.0000 | 0.0000  |
| 27  | 11  | -0.5776 | 1.5328            | 0.0000        | 0.1877 | 0.0000 | 6.9761  |
| 28  | 6   | -0.8300 | 0.0000            | 0.0000        | 0.2093 | 0.0000 | 9.0537  |
| 29  | 28  | 0.3259  | 0.0000            | 0.0000        | 0.1559 | 0.0000 | 0.0000  |
| 30  | 29  | 0.3259  | 2.0190            | 0.0000        | 0.2287 | 0.0000 | 0.0000  |
| 31  | 5   | 0.2300  | 0.0000            | 0.0000        | 0.3151 | 0.0000 | 0.0000  |
| 32  | 31  | 0.2300  | 0.0000            | 0.0000        | 0.1348 | 0.0000 | 5.5758  |
| 33  | 32  | 0.3259  | 1.5328            | 0.0000        | 0.1910 | 0.0000 | 0.0000  |
| 34  | 31  | 0.1100  | 0.0000            | 0.0000        | 0.2618 | 0.0000 | 0.0000  |
| 35  | 34  | 0.0681  | 0.0000            | 0.0000        | 0.1487 | 0.0000 | 0.0000  |
| 36  | 35  | 0.2386  | 0.0000            | 0.0000        | 0.1585 | 0.0000 | 0.0000  |
| 37  | 36  | 0.2776  | 0.0000            | 0.0000        | 0.1465 | 0.0000 | 0.0000  |
| 38  | 37  | 0.4028  | 0.0000            | 0.0000        | 0.3217 | 0.0000 | 0.0000  |
| 39  | 38  | 0.0806  | 0.0000            | 0.0000        | 0.1444 | 0.0000 | 0.0000  |
| 40  | 39  | 0.2862  | 0.0000            | 0.0000        | 0.0914 | 0.0000 | 0.0000  |
| 41  | 40  | 0.4664  | 0.0000            | 0.0000        | 0.0583 | 0.0000 | 0.0000  |
| 42  | 41  | 0.5300  | 0.0000            | 0.0000        | 0.6237 | 0.0000 | 0.0000  |
| 43  | 42  | 0.3149  | 1.6130            | 0.0000        | 0.0401 | 0.0000 | 0.0000  |
| 44  | 41  | 0.5500  | 1.6130            | 0.0000        | 0.0401 | 0.0000 | 0.9058  |
| 45  | 40  | 0.3048  | 1.5328            | 0.0000        | 0.0343 | 0.0000 | 1.6443  |
| 46  | 38  | -0.8300 | 22.4158           | 0.0000        | 0.5638 | 0.0000 | 58.8378 |
| 47  | 37  | -0.1344 | 0.0000            | 0.0000        | 0.2140 | 0.0000 | 1.1387  |
| 48  | 47  | 0.5994  | 0.0000            | 0.0000        | 0.0545 | 0.0000 | 4.8027  |
| 49  | 48  | 0.0000  | 0.0000            | 0.0000        | 0.0763 | 0.0000 | 0.0000  |
| 50  | 49  | 0.3581  | 5.6039            | 0.0000        | 0.0697 | 0.0000 | 0.0000  |
| 51  | 47  | 1.9045  | 1.5328            | 0.0000        | 0.0393 | 0.0000 | 0.0000  |
| 52  | 36  | -0.6537 | 0.9810            | 0.0000        | 0.8417 | 0.0000 | 3.7831  |
| 53  | 35  | -0.7228 | 1.5328            | 0.0000        | 0.1910 | 0.0000 | 8.1798  |



## C-VALUE DATA

System name : 0221R 18-06-24  
Prepared by : G.O.C. 61017002.16  
E20-II DuctLINK Program Page 2 Of 2

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1. C-VALUE DATA FOR SECTIONS 1 THROUGH 55. (Continued)

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| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 54  | 34  | -0.7200 | 0.0000            | 0.0000        | 0.8334 | 0.9889 | 23.7080 |
| 55  | 54  | 0.3581  | 5.6039            | 0.0000        | 0.3001 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0221R 18-06-24  
 Prepared by : G.O.C. 61017002.16  
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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| -----   |             |             |
| Fan Airflow Rate .....                        | :           | 2493.0 L/s  |
| Fan Static Pressure .....                     | :           | 0.0693 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.1307 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.1307 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.1307 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1922 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| -----                       |   |             |
| Return System Loss .....    | : | -0.1307 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.1307 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| -----                         |   |            |
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| -----                     |   |                |
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 0221R

18-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 55.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1307           | -0.1473            | 5.2      | 0.0166               | 26.8867 E+04       |
| 2   | -0.1304           | -0.1470            | 5.2      | 0.0166               | 26.8867 E+04       |
| 3   | -0.1257           | -0.1422            | 5.2      | 0.0166               | 26.8867 E+04       |
| 4   | -0.1202           | -0.1368            | 5.2      | 0.0166               | 26.8867 E+04       |
| 5   | -0.1048           | -0.1214            | 5.2      | 0.0166               | 26.8867 E+04       |
| 6   | -0.0932           | -0.1153            | 6.0      | 0.0221               | 18.7857 E+04       |
| 7   | -0.0853           | -0.1071            | 6.0      | 0.0218               | 18.0818 E+04       |
| 8   | -0.0244           | -0.0302            | 3.1      | 0.0058               | 5.7772 E+04        |
| 9   | -0.0187           | -0.0278            | 3.9      | 0.0091               | 6.4491 E+04        |
| 10  | -0.0802           | -0.1000            | 5.7      | 0.0197               | 16.0544 E+04       |
| 11  | -0.0715           | -0.0912            | 5.7      | 0.0197               | 16.0544 E+04       |
| 12  | -0.0681           | -0.0850            | 5.3      | 0.0170               | 13.7115 E+04       |
| 13  | -0.0563           | -0.0730            | 5.2      | 0.0167               | 12.9432 E+04       |
| 14  | -0.0488           | -0.0618            | 4.6      | 0.0130               | 9.6021 E+04        |
| 15  | -0.0332           | -0.0462            | 4.6      | 0.0130               | 9.6021 E+04        |
| 16  | -0.0276           | -0.0352            | 3.5      | 0.0075               | 5.8577 E+04        |
| 17  | -0.0159           | -0.0234            | 3.5      | 0.0075               | 5.8577 E+04        |
| 18  | -0.0229           | -0.0320            | 3.9      | 0.0091               | 6.4491 E+04        |
| 19  | -0.0071           | -0.0079            | 1.1      | 0.0008               | 1.2485 E+04        |
| 20  | -0.0386           | -0.0478            | 3.9      | 0.0091               | 6.4491 E+04        |
| 21  | -0.0174           | -0.0265            | 3.9      | 0.0091               | 6.4491 E+04        |
| 22  | -0.0139           | -0.0200            | 3.2      | 0.0061               | 3.5458 E+04        |
| 23  | -0.0248           | -0.0255            | 1.1      | 0.0008               | 1.2485 E+04        |
| 24  | -0.0209           | -0.0217            | 1.1      | 0.0008               | 1.2485 E+04        |
| 25  | -0.0174           | -0.0181            | 1.1      | 0.0008               | 1.2485 E+04        |
| 26  | -0.0249           | -0.0274            | 2.0      | 0.0026               | 2.2973 E+04        |
| 27  | -0.0043           | -0.0135            | 3.9      | 0.0091               | 6.4491 E+04        |
| 28  | -0.0091           | -0.0175            | 3.7      | 0.0084               | 4.1601 E+04        |
| 29  | -0.0257           | -0.0341            | 3.7      | 0.0084               | 4.1601 E+04        |
| 30  | -0.0217           | -0.0301            | 3.7      | 0.0084               | 4.1601 E+04        |
| 31  | -0.0999           | -0.1236            | 6.2      | 0.0237               | 21.7704 E+04       |
| 32  | -0.0257           | -0.0370            | 4.3      | 0.0113               | 6.7090 E+04        |
| 33  | -0.0187           | -0.0279            | 3.9      | 0.0091               | 6.4491 E+04        |
| 34  | -0.0886           | -0.1114            | 6.1      | 0.0229               | 19.9286 E+04       |
| 35  | -0.0800           | -0.1009            | 5.8      | 0.0210               | 19.0803 E+04       |
| 36  | -0.0753           | -0.0949            | 5.6      | 0.0196               | 16.9911 E+04       |
| 37  | -0.0672           | -0.0849            | 5.4      | 0.0177               | 14.6494 E+04       |
| 38  | -0.0592           | -0.0789            | 5.7      | 0.0198               | 12.5221 E+04       |
| 39  | -0.0457           | -0.0635            | 5.4      | 0.0178               | 11.8912 E+04       |
| 40  | -0.0415           | -0.0593            | 5.4      | 0.0178               | 11.8912 E+04       |
| 41  | -0.0348           | -0.0470            | 4.5      | 0.0122               | 8.3422 E+04        |
| 42  | -0.0257           | -0.0332            | 3.5      | 0.0074               | 5.2139 E+04        |
| 43  | -0.0146           | -0.0221            | 3.5      | 0.0074               | 5.2139 E+04        |
| 44  | -0.0190           | -0.0264            | 3.5      | 0.0074               | 5.2139 E+04        |
| 45  | -0.0197           | -0.0289            | 3.9      | 0.0091               | 6.4491 E+04        |
| 46  | -0.0010           | -0.0018            | 1.1      | 0.0008               | 1.2485 E+04        |
| 47  | -0.0427           | -0.0571            | 4.9      | 0.0145               | 8.1216 E+04        |
| 48  | -0.0274           | -0.0304            | 2.2      | 0.0030               | 2.4971 E+04        |
| 49  | -0.0185           | -0.0216            | 2.2      | 0.0030               | 2.4971 E+04        |
| 50  | -0.0183           | -0.0213            | 2.2      | 0.0030               | 2.4971 E+04        |
| 51  | -0.0419           | -0.0511            | 3.9      | 0.0091               | 6.4491 E+04        |



## PRESSURE LOSS DATA II

System name : 0221R 18-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 2 Of 2

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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 55. (Continued)

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 52  | -0.0132           | -0.0275            | 4.8      | 0.0143               | 7.2215 E+04        |
| 53  | -0.0006           | -0.0097            | 3.9      | 0.0091               | 6.4491 E+04        |
| 54  | -0.0081           | -0.0111            | 2.2      | 0.0030               | 2.4971 E+04        |
| 55  | -0.0190           | -0.0220            | 2.2      | 0.0030               | 2.4971 E+04        |

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## SIZE DATA

System name : 022I

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 25.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1321.5          | 6.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 2   | REC   | 1321.5          | 6.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 3   | REC   | 1321.5          | 6.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 4   | REC   | 1321.5          | 6.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 5   | REC   | 1321.5          | 6.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 6   | REC   | 1321.5          | 6.6      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 7   | REC   | 498.9           | 5.5      | 300.0               | 300.0  | 300.0                 | 300.0  |
| 8   | REC   | 263.5           | 4.2      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 9   | REC   | 263.5           | 4.2      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 10  | REC   | 131.8           | 3.3      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 11  | REC   | 131.8           | 3.3      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 12  | REC   | 235.4           | 3.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 13  | REC   | 235.4           | 3.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 14  | REC   | 117.7           | 2.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 15  | REC   | 117.7           | 2.9      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 16  | REC   | 822.6           | 5.5      | 500.0               | 300.0  | 500.0                 | 300.0  |
| 17  | REC   | 241.8           | 3.9      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 18  | REC   | 120.9           | 3.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 19  | REC   | 120.9           | 3.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 20  | REC   | 580.8           | 4.8      | 400.0               | 300.0  | 400.0                 | 300.0  |
| 21  | REC   | 290.4           | 3.9      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 22  | REC   | 145.2           | 3.6      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 23  | REC   | 145.2           | 3.6      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 24  | REC   | 145.2           | 3.6      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 25  | REC   | 145.2           | 3.6      | 200.0               | 200.0  | 200.0                 | 200.0  |

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## PRESSURE LOSS DATA

System name : 022I

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 25.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0009        |
| 2   | 0.0070      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0079        |
| 3   | 0.0070      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0087        |
| 4   | 0.0070      | 0.0000                    | 0.0000                | 0.0020       | 0.0570        | 0.0000          | 0.0660        |
| 5   | 0.0070      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0090        |
| 6   | 0.0070      | 0.0000                    | 0.0000                | 0.0049       | 0.0000        | 0.0000          | 0.0119        |
| 7   | 0.0080      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0119          | 0.0222        |
| 8   | 0.0053      | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0079        |
| 9   | 0.0032      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0040        |
| 10  | 0.0031      | 0.5000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.5042        |
| 11  | 0.0031      | 0.5000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.5042        |
| 12  | 0.0053      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0021          | 0.0095        |
| 13  | 0.0026      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0032        |
| 14  | 0.0025      | 0.5000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.5034        |
| 15  | 0.0025      | 0.5000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.5034        |
| 16  | 0.0074      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0090        |
| 17  | 0.0055      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0185          | 0.0251        |
| 18  | 0.0026      | 0.5000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.5042        |
| 19  | 0.0026      | 0.5000                    | 0.0000                | 0.0008       | 0.0000        | 0.0008          | 0.5042        |
| 20  | 0.0050      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0061        |
| 21  | 0.0003      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0161          | 0.0184        |
| 22  | 0.0027      | 0.5000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.5049        |
| 23  | 0.0027      | 0.5000                    | 0.0000                | 0.0011       | 0.0000        | 0.0010          | 0.5049        |
| 24  | 0.0211      | 0.5000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.5233        |
| 25  | 0.0211      | 0.5000                    | 0.0000                | 0.0011       | 0.0000        | 0.0010          | 0.5233        |

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## C-VALUE DATA

System name : 022I

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 25.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0345 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2599 | 0.0000            | 0.0000        | 0.0345 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2599 | 0.0000            | 0.0000        | 0.0643 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2599 | 0.0000            | 0.0000        | 0.0741 | 2.1253 | 0.0000  |
| 5   | 4   | 0.2599 | 0.0000            | 0.0000        | 0.0743 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2599 | 0.0000            | 0.0000        | 0.1830 | 0.0000 | 0.0000  |
| 7   | 6   | 0.3000 | 0.0000            | 0.0000        | 0.1210 | 0.0000 | 0.6298  |
| 8   | 7   | 0.2806 | 0.0000            | 0.0000        | 0.2388 | 0.0000 | 0.0000  |
| 9   | 8   | 0.2907 | 0.0000            | 0.0000        | 0.0734 | 0.0000 | 0.0000  |
| 10  | 9   | 0.2860 | 75.0254           | 0.0000        | 0.1651 | 0.0000 | 0.0000  |
| 11  | 9   | 0.2860 | 75.0254           | 0.0000        | 0.1651 | 0.0000 | 0.0000  |
| 12  | 7   | 0.2806 | 0.0000            | 0.0000        | 0.2360 | 0.0000 | 0.2424  |
| 13  | 12  | 0.2977 | 0.0000            | 0.0000        | 0.0749 | 0.0000 | 0.0000  |
| 14  | 13  | 0.2860 | 94.0062           | 0.0000        | 0.1687 | 0.0000 | 0.0000  |
| 15  | 13  | 0.2860 | 94.0062           | 0.0000        | 0.1687 | 0.0000 | 0.0000  |
| 16  | 6   | 0.2750 | 0.0000            | 0.0000        | 0.0879 | 0.0000 | 0.0000  |
| 17  | 16  | 0.3000 | 0.0000            | 0.0000        | 0.1155 | 0.0000 | 2.0159  |
| 18  | 17  | 0.2860 | 89.0957           | 0.0000        | 0.2767 | 0.0000 | 0.0000  |
| 19  | 17  | 0.2860 | 89.0957           | 0.0000        | 0.1355 | 0.0000 | 0.1412  |
| 20  | 16  | 0.2700 | 0.0000            | 0.0000        | 0.0741 | 0.0000 | 0.0000  |
| 21  | 20  | 0.0200 | 0.0000            | 0.0000        | 0.2200 | 0.0000 | 1.7435  |
| 22  | 21  | 0.2967 | 61.7698           | 0.0000        | 0.2673 | 0.0000 | 0.0000  |
| 23  | 21  | 0.2967 | 61.7698           | 0.0000        | 0.1413 | 0.0000 | 0.1260  |
| 24  | 20  | 1.4667 | 61.7698           | 0.0000        | 0.2671 | 0.0000 | 0.0000  |
| 25  | 20  | 1.4667 | 61.7698           | 0.0000        | 0.1413 | 0.0000 | 0.1257  |

\*\*\*\*\*



## FAN DATA PRINTOUT

System name : 022I

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 1321.5 L/s |
| Fan Static Pressure .....                     | :           | 0.5812 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.6426 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.6426 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.6426 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.5812 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.6426 kPa |
| Total Downstream Losses ..... | : | 0.6426 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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## PRESSURE LOSS DATA II

System name : 022I

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 25.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.6426            | 0.6158             | 6.6      | 0.0268               | 22.1019 E+04       |
| 2   | 0.6417            | 0.6149             | 6.6      | 0.0268               | 22.1019 E+04       |
| 3   | 0.6338            | 0.6070             | 6.6      | 0.0268               | 22.1019 E+04       |
| 4   | 0.6251            | 0.5983             | 6.6      | 0.0268               | 22.1019 E+04       |
| 5   | 0.5592            | 0.5323             | 6.6      | 0.0268               | 22.1019 E+04       |
| 6   | 0.5502            | 0.5234             | 6.6      | 0.0268               | 22.1019 E+04       |
| 7   | 0.5264            | 0.5076             | 5.5      | 0.0189               | 12.4579 E+04       |
| 8   | 0.5161            | 0.5052             | 4.2      | 0.0109               | 7.8957 E+04        |
| 9   | 0.5082            | 0.4973             | 4.2      | 0.0109               | 7.8957 E+04        |
| 10  | 0.5042            | 0.4976             | 3.3      | 0.0067               | 4.9348 E+04        |
| 11  | 0.5042            | 0.4976             | 3.3      | 0.0067               | 4.9348 E+04        |
| 12  | 0.5140            | 0.5053             | 3.8      | 0.0087               | 7.0537 E+04        |
| 13  | 0.5066            | 0.4979             | 3.8      | 0.0087               | 7.0537 E+04        |
| 14  | 0.5034            | 0.4981             | 2.9      | 0.0053               | 4.4086 E+04        |
| 15  | 0.5034            | 0.4981             | 2.9      | 0.0053               | 4.4086 E+04        |
| 16  | 0.5383            | 0.5198             | 5.5      | 0.0185               | 15.7831 E+04       |
| 17  | 0.5108            | 0.5016             | 3.9      | 0.0092               | 7.2455 E+04        |
| 18  | 0.5042            | 0.4986             | 3.0      | 0.0056               | 4.5284 E+04        |
| 19  | 0.5034            | 0.4978             | 3.0      | 0.0056               | 4.5284 E+04        |
| 20  | 0.5293            | 0.5149             | 4.8      | 0.0144               | 12.5276 E+04       |
| 21  | 0.5072            | 0.4980             | 3.9      | 0.0092               | 7.9354 E+04        |
| 22  | 0.5049            | 0.4968             | 3.6      | 0.0081               | 5.4386 E+04        |
| 23  | 0.5039            | 0.4958             | 3.6      | 0.0081               | 5.4386 E+04        |
| 24  | 0.5233            | 0.5152             | 3.6      | 0.0081               | 5.4386 E+04        |
| 25  | 0.5222            | 0.5142             | 3.6      | 0.0081               | 5.4386 E+04        |

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## SIZE DATA

System name : 0222R

27-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 17.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 1189.1          | 5.9      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 2   | REC   | 1189.1          | 5.9      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 3   | REC   | 1189.1          | 5.9      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 4   | REC   | 1189.1          | 5.9      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 5   | REC   | 1189.1          | 5.9      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 6   | REC   | 1189.1          | 5.9      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 7   | REC   | 1189.1          | 5.9      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 8   | REC   | 1189.1          | 5.9      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 9   | REC   | 1189.1          | 5.9      | 500.0               | 400.0  | 500.0                 | 400.0  |
| 10  | REC   | 666.5           | 5.3      | 500.0               | 250.0  | 500.0                 | 250.0  |
| 11  | REC   | 429.4           | 4.9      | 350.0               | 250.0  | 350.0                 | 250.0  |
| 12  | REC   | 211.8           | 3.4      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 13  | REC   | 217.6           | 3.5      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 14  | REC   | 237.1           | 3.8      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 15  | REC   | 522.6           | 5.0      | 350.0               | 300.0  | 350.0                 | 300.0  |
| 16  | REC   | 261.3           | 3.5      | 300.0               | 250.0  | 300.0                 | 250.0  |
| 17  | REC   | 261.3           | 3.5      | 300.0               | 250.0  | 300.0                 | 250.0  |

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## PRESSURE LOSS DATA

System name : 0222R

27-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 17.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0008        |
| 2   | 0.0056      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0064        |
| 3   | 0.0056      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0079        |
| 4   | 0.0056      | 0.0000                    | 0.0000                | 0.0023       | 0.0300        | 0.0000          | 0.0379        |
| 5   | 0.0056      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0076        |
| 6   | 0.0056      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0066        |
| 7   | 0.0056      | 0.0000                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0067        |
| 8   | 0.0000      | 0.0000                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0017        |
| 9   | 0.0056      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0075        |
| 10  | 0.0106      | 0.0000                    | 0.0000                | 0.0024       | 0.0000        | 0.0000          | 0.0129        |
| 11  | 0.0074      | 0.0000                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0086        |
| 12  | 0.0024      | 0.0170                    | 0.0000                | 0.0005       | 0.0000        | 0.0012          | 0.0210        |
| 13  | 0.0024      | 0.0170                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0210        |
| 14  | 0.0004      | 0.0170                    | 0.0000                | 0.0006       | 0.0000        | 0.0116          | 0.0296        |
| 15  | 0.0084      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0110          | 0.0217        |
| 16  | 0.0025      | 0.0170                    | 0.0000                | 0.0006       | 0.0000        | 0.0008          | 0.0209        |
| 17  | 0.0025      | 0.0170                    | 0.0000                | 0.0015       | 0.0000        | 0.0000          | 0.0209        |

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## C-VALUE DATA

System name : 0222R

27-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 17.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0350 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2599 | 0.0000            | 0.0000        | 0.0350 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2599 | 0.0000            | 0.0000        | 0.1049 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2599 | 0.0000            | 0.0000        | 0.1049 | 1.3814 | 0.0000  |
| 5   | 4   | 0.2599 | 0.0000            | 0.0000        | 0.0921 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2599 | 0.0000            | 0.0000        | 0.0434 | 0.0000 | 0.0000  |
| 7   | 6   | 0.2599 | 0.0000            | 0.0000        | 0.0476 | 0.0000 | 0.0000  |
| 8   | 7   | 0.0000 | 0.0000            | 0.0000        | 0.0781 | 0.0000 | 0.0000  |
| 9   | 8   | 0.2599 | 0.0000            | 0.0000        | 0.0875 | 0.0000 | 0.0000  |
| 10  | 9   | 0.4876 | 0.0000            | 0.0000        | 0.1349 | 0.0000 | 0.0000  |
| 11  | 10  | 0.4246 | 0.0000            | 0.0000        | 0.0807 | 0.0000 | 0.0000  |
| 12  | 11  | 0.1614 | 2.4098            | 0.0000        | 0.0685 | 0.0000 | 0.1654  |
| 13  | 11  | 0.1614 | 2.2830            | 0.0000        | 0.2215 | 0.0000 | 0.0000  |
| 14  | 10  | 0.0236 | 1.9221            | 0.0000        | 0.0693 | 0.0000 | 1.3142  |
| 15  | 9   | 0.3866 | 0.0000            | 0.0000        | 0.1505 | 0.0000 | 0.7220  |
| 16  | 15  | 0.1614 | 2.2799            | 0.0000        | 0.0828 | 0.0000 | 0.1138  |
| 17  | 15  | 0.1614 | 2.2799            | 0.0000        | 0.1966 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 0222R 27-06-24  
 Prepared by : G.O.C. 61017002.16  
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## Fan Selection Parameters (Return System)

```

-----
Fan Airflow Rate ..... : 1189.1 L/s
Fan Static Pressure ..... : 0.0643 kPa
-----
Total Pressure Difference Across Fan ..... : 0.1257 kPa
Static Pressure Difference Across Fan ..... : 0.1257 kPa
Velocity Pressure Difference Across Fan ..... : 0.0000 kPa
-----
Fan Inlet / Outlet Data                At Inlet                At Outlet
-----
Total Pressure ..... : -0.1257 kPa                0.0000 kPa
Static Pressure ..... : -0.1872 kPa                -0.0614 kPa
Velocity Pressure ..... : 0.0614 kPa                0.0614 kPa
Velocity ..... : 10.0 m/s                10.0 m/s
-----

```

## Losses Upstream of Fan

```

-----
Return System Loss ..... : -0.1257 kPa
Filter Loss ..... : 0.0000 kPa
Other Upstream Losses ..... : 0.0000 kPa
Total Upstream Losses ..... : -0.1257 kPa
-----

```

## Losses Downstream of Fan

```

-----
Filter Loss ..... : 0.0000 kPa
Other Downstream Losses ..... : 0.0000 kPa
Total Downstream Losses ..... : 0.0000 kPa
-----

```

## Psychrometric Properties

```

-----
Altitude ..... : 0.0 m
Temperature ..... : 12.8 C
Relative Humidity ..... : 100.0 %
Density ..... : 1.2296 kg/cu m
Viscosity ..... : 0.0040 sqm/s
Barometric Pressure ..... : 101.3260 kPa
Vapor Pressure ..... : 1.4734 kPa
-----
*****

```



## PRESSURE LOSS DATA II

System name : 0222R

27-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 17.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1257           | -0.1475            | 5.9      | 0.0217               | 19.8884 E+04       |
| 2   | -0.1250           | -0.1467            | 5.9      | 0.0217               | 19.8884 E+04       |
| 3   | -0.1186           | -0.1403            | 5.9      | 0.0217               | 19.8884 E+04       |
| 4   | -0.1107           | -0.1324            | 5.9      | 0.0217               | 19.8884 E+04       |
| 5   | -0.0727           | -0.0945            | 5.9      | 0.0217               | 19.8884 E+04       |
| 6   | -0.0651           | -0.0868            | 5.9      | 0.0217               | 19.8884 E+04       |
| 7   | -0.0585           | -0.0802            | 5.9      | 0.0217               | 19.8884 E+04       |
| 8   | -0.0518           | -0.0736            | 5.9      | 0.0217               | 19.8884 E+04       |
| 9   | -0.0501           | -0.0719            | 5.9      | 0.0217               | 19.8884 E+04       |
| 10  | -0.0426           | -0.0601            | 5.3      | 0.0175               | 13.9167 E+04       |
| 11  | -0.0296           | -0.0444            | 4.9      | 0.0148               | 10.8363 E+04       |
| 12  | -0.0199           | -0.0269            | 3.4      | 0.0071               | 6.3466 E+04        |
| 13  | -0.0210           | -0.0285            | 3.5      | 0.0074               | 6.5204 E+04        |
| 14  | -0.0180           | -0.0269            | 3.8      | 0.0088               | 7.1062 E+04        |
| 15  | -0.0316           | -0.0468            | 5.0      | 0.0152               | 12.0727 E+04       |
| 16  | -0.0201           | -0.0275            | 3.5      | 0.0075               | 7.1402 E+04        |
| 17  | -0.0209           | -0.0284            | 3.5      | 0.0075               | 7.1402 E+04        |

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## SIZE DATA

System name : 0223I

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 15.

| Sec | Shape | Airflow | Velocity | Metal |        | Airflow |        |
|-----|-------|---------|----------|-------|--------|---------|--------|
|     |       | Rate    |          | Width | Height | Width   | Height |
|     |       | L/s     | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 727.5   | 6.1      | 400.0 | 300.0  | 400.0   | 300.0  |
| 2   | REC   | 727.5   | 6.1      | 400.0 | 300.0  | 400.0   | 300.0  |
| 3   | REC   | 727.5   | 6.1      | 400.0 | 300.0  | 400.0   | 300.0  |
| 4   | REC   | 727.5   | 6.1      | 400.0 | 300.0  | 400.0   | 300.0  |
| 5   | REC   | 727.5   | 6.1      | 400.0 | 300.0  | 400.0   | 300.0  |
| 6   | REC   | 436.5   | 4.9      | 300.0 | 300.0  | 300.0   | 300.0  |
| 7   | REC   | 291.0   | 4.7      | 250.0 | 250.0  | 250.0   | 250.0  |
| 8   | REC   | 145.5   | 3.6      | 200.0 | 200.0  | 200.0   | 200.0  |
| 9   | REC   | 145.5   | 3.6      | 200.0 | 200.0  | 200.0   | 200.0  |
| 10  | REC   | 145.5   | 3.6      | 200.0 | 200.0  | 200.0   | 200.0  |
| 11  | REC   | 145.5   | 3.6      | 200.0 | 200.0  | 200.0   | 200.0  |
| 12  | REC   | 291.0   | 4.7      | 250.0 | 250.0  | 250.0   | 250.0  |
| 13  | REC   | 145.5   | 3.6      | 200.0 | 200.0  | 200.0   | 200.0  |
| 14  | REC   | 145.5   | 3.6      | 200.0 | 200.0  | 200.0   | 200.0  |
| 15  | REC   | 145.5   | 3.6      | 200.0 | 200.0  | 200.0   | 200.0  |

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PRESSURE LOSS DATA

System name : 0223I

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 15.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0011        |
| 2   | 0.0060      | 0.0000                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0081        |
| 3   | 0.0060      | 0.0000                    | 0.0000                | 0.0046       | 0.0000        | 0.0000          | 0.0106        |
| 4   | 0.0060      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0000          | 0.0093        |
| 5   | 0.0060      | 0.0000                    | 0.0000                | 0.0025       | 0.0400        | 0.0000          | 0.0485        |
| 6   | 0.0062      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0000          | 0.0093        |
| 7   | -0.0005     | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0000          | 0.0030        |
| 8   | 0.0007      | 0.0000                    | 0.0000                | 0.0063       | 0.0000        | 0.0000          | 0.0070        |
| 9   | 0.0025      | 0.0220                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0266        |
| 10  | 0.0062      | 0.0220                    | 0.0000                | 0.0020       | 0.0000        | 0.0033          | 0.0336        |
| 11  | 0.0056      | 0.0220                    | 0.0000                | 0.0020       | 0.0000        | 0.0069          | 0.0365        |
| 12  | 0.0067      | 0.0000                    | 0.0000                | 0.0039       | 0.0000        | 0.0016          | 0.0122        |
| 13  | 0.0007      | 0.0000                    | 0.0000                | 0.0064       | 0.0000        | 0.0000          | 0.0071        |
| 14  | 0.0025      | 0.0220                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0266        |
| 15  | 0.0062      | 0.0220                    | 0.0000                | 0.0020       | 0.0000        | 0.0034          | 0.0337        |

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## C-VALUE DATA

System name : 0223I

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 15.

```

-----
Sec   Frm       Fit      Equip      Equip      Fric      Other      Balance
      Terminal  Thru
-----
  1     0       0.0000    0.0000    0.0000    0.0476    0.0000    0.0000
  2     1       0.2645    0.0000    0.0000    0.0951    0.0000    0.0000
  3     2       0.2645    0.0000    0.0000    0.2046    0.0000    0.0000
  4     3       0.2645    0.0000    0.0000    0.1483    0.0000    0.0000
  5     4       0.2645    0.0000    0.0000    0.1101    1.7716    0.0000
  6     5       0.2750    0.0000    0.0000    0.2169    0.0000    0.0000
  7     6      -0.0318    0.0000    0.0000    0.2579    0.0000    0.0000
  8     7       0.0528    0.0000    0.0000    0.7722    0.0000    0.0000
  9     8       0.3124    2.7067    0.0000    0.2509    0.0000    0.0000
 10     7       0.4640    2.7067    0.0000    0.2509    0.0000    0.4108
 11     6       0.3889    2.7067    0.0000    0.2509    0.0000    0.8457
 12     5       0.2979    0.0000    0.0000    0.2947    0.0000    0.1178
 13    12       0.0528    0.0000    0.0000    0.7844    0.0000    0.0000
 14    13       0.3124    2.7067    0.0000    0.2509    0.0000    0.0000
 15    12       0.4640    2.7067    0.0000    0.2509    0.0000    0.4231
*****

```



## FAN DATA PRINTOUT

System name : 0223I

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 727.5 L/s  |
| Fan Static Pressure .....                     | :           | 0.0620 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.1234 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.1234 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.1234 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.0620 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.1234 kPa |
| Total Downstream Losses ..... | : | 0.1234 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



PRESSURE LOSS DATA II

System name : 0223I 26-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 15.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.1234            | 0.1009             | 6.1      | 0.0226               | 15.6919 E+04       |
| 2   | 0.1224            | 0.0998             | 6.1      | 0.0226               | 15.6919 E+04       |
| 3   | 0.1142            | 0.0917             | 6.1      | 0.0226               | 15.6919 E+04       |
| 4   | 0.1037            | 0.0811             | 6.1      | 0.0226               | 15.6919 E+04       |
| 5   | 0.0943            | 0.0718             | 6.1      | 0.0226               | 15.6919 E+04       |
| 6   | 0.0459            | 0.0314             | 4.9      | 0.0144               | 10.8997 E+04       |
| 7   | 0.0365            | 0.0232             | 4.7      | 0.0133               | 8.7198 E+04        |
| 8   | 0.0336            | 0.0254             | 3.6      | 0.0081               | 5.4499 E+04        |
| 9   | 0.0266            | 0.0185             | 3.6      | 0.0081               | 5.4499 E+04        |
| 10  | 0.0302            | 0.0221             | 3.6      | 0.0081               | 5.4499 E+04        |
| 11  | 0.0297            | 0.0215             | 3.6      | 0.0081               | 5.4499 E+04        |
| 12  | 0.0443            | 0.0310             | 4.7      | 0.0133               | 8.7198 E+04        |
| 13  | 0.0337            | 0.0255             | 3.6      | 0.0081               | 5.4499 E+04        |
| 14  | 0.0266            | 0.0185             | 3.6      | 0.0081               | 5.4499 E+04        |
| 15  | 0.0302            | 0.0221             | 3.6      | 0.0081               | 5.4499 E+04        |

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SIZE DATA

System name : 0223R 26-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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1. SIZE DATA FOR SECTIONS 1 THROUGH 12.

| Sec   | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-------|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|       |       |                 |          | Width               | Height | Width                 | Height |
|       |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1     | REC   | 654.8           | 6.5      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 2     | REC   | 654.8           | 6.5      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 3     | REC   | 654.8           | 6.5      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 4     | REC   | 654.8           | 6.5      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 5     | REC   | 654.8           | 6.5      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 6     | REC   | 654.8           | 6.5      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 7     | REC   | 218.3           | 3.5      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 8     | REC   | 218.3           | 3.5      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 9     | REC   | 436.5           | 5.0      | 350.0               | 250.0  | 350.0                 | 250.0  |
| 10    | REC   | 218.3           | 3.5      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 11    | REC   | 218.3           | 3.5      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 12    | REC   | 218.3           | 3.5      | 250.0               | 250.0  | 250.0                 | 250.0  |
| ***** |       |                 |          |                     |        |                       |        |



## PRESSURE LOSS DATA

System name : 0223R

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 12.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0014        |
| 2   | 0.0073      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0100        |
| 3   | 0.0073      | 0.0000                    | 0.0000                | 0.0060       | 0.0000        | 0.0000          | 0.0132        |
| 4   | 0.0073      | 0.0000                    | 0.0000                | 0.0055       | 0.0000        | 0.0000          | 0.0127        |
| 5   | 0.0073      | 0.0000                    | 0.0000                | 0.0099       | 0.0000        | 0.0000          | 0.0172        |
| 6   | 0.0073      | 0.0000                    | 0.0000                | 0.0045       | 0.0000        | 0.0000          | 0.0118        |
| 7   | 0.0050      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0115          | 0.0196        |
| 8   | 0.0023      | 0.0170                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0198        |
| 9   | 0.0029      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0049        |
| 10  | 0.0081      | 0.0000                    | 0.0000                | 0.0066       | 0.0000        | 0.0000          | 0.0147        |
| 11  | 0.0023      | 0.0170                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0198        |
| 12  | 0.0084      | 0.0170                    | 0.0000                | 0.0005       | 0.0000        | 0.0085          | 0.0345        |

\*\*\*\*\*



## C-VALUE DATA

System name : 0223R

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. C-VALUE DATA FOR SECTIONS 1 THROUGH 12.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0526 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2760 | 0.0000            | 0.0000        | 0.1052 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2760 | 0.0000            | 0.0000        | 0.2263 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2760 | 0.0000            | 0.0000        | 0.2073 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2760 | 0.0000            | 0.0000        | 0.3776 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2760 | 0.0000            | 0.0000        | 0.1706 | 0.0000 | 0.0000  |
| 7   | 6   | 0.1900 | 0.0000            | 0.0000        | 0.4144 | 0.0000 | 1.5297  |
| 8   | 7   | 0.3021 | 2.2694            | 0.0000        | 0.0676 | 0.0000 | 0.0000  |
| 9   | 6   | 0.1100 | 0.0000            | 0.0000        | 0.1292 | 0.0000 | 0.0000  |
| 10  | 9   | 0.5300 | 0.0000            | 0.0000        | 0.8800 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3021 | 2.2694            | 0.0000        | 0.0676 | 0.0000 | 0.0000  |
| 12  | 9   | 0.5500 | 2.2694            | 0.0000        | 0.0676 | 0.0000 | 1.1413  |

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## FAN DATA PRINTOUT

System name : 0223R 26-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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## Fan Selection Parameters (Return System)

```

-----
Fan Airflow Rate ..... :      654.8 L/s
Fan Static Pressure ..... :      0.0443 kPa
-----
Total Pressure Difference Across Fan ..... :      0.1057 kPa
Static Pressure Difference Across Fan ..... :      0.1057 kPa
Velocity Pressure Difference Across Fan ..... :      0.0000 kPa
-----
Fan Inlet / Outlet Data                At Inlet                At Outlet
-----
Total Pressure ..... :      -0.1057 kPa      0.0000 kPa
Static Pressure ..... :      -0.1671 kPa     -0.0614 kPa
Velocity Pressure ..... :      0.0614 kPa      0.0614 kPa
Velocity ..... :      10.0 m/s      10.0 m/s
-----

```

## Losses Upstream of Fan

```

-----
Return System Loss ..... :      -0.1057 kPa
Filter Loss ..... :      0.0000 kPa
Other Upstream Losses ..... :      0.0000 kPa
Total Upstream Losses ..... :      -0.1057 kPa
-----

```

## Losses Downstream of Fan

```

-----
Filter Loss ..... :      0.0000 kPa
Other Downstream Losses ..... :      0.0000 kPa
Total Downstream Losses ..... :      0.0000 kPa
-----

```

## Psychrometric Properties

```

-----
Altitude ..... :      0.0 m
Temperature ..... :      12.8 C
Relative Humidity ..... :      100.0 %
Density ..... :      1.2296 kg/cu m
Viscosity ..... :      0.0040 sqm/s
Barometric Pressure ..... :      101.3260 kPa
Vapor Pressure ..... :      1.4734 kPa
-----

```

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## PRESSURE LOSS DATA II

System name : 0223R

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 12.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1057           | -0.1320            | 6.5      | 0.0263               | 15.4048 E+04       |
| 2   | -0.1043           | -0.1306            | 6.5      | 0.0263               | 15.4048 E+04       |
| 3   | -0.0943           | -0.1206            | 6.5      | 0.0263               | 15.4048 E+04       |
| 4   | -0.0810           | -0.1074            | 6.5      | 0.0263               | 15.4048 E+04       |
| 5   | -0.0683           | -0.0946            | 6.5      | 0.0263               | 15.4048 E+04       |
| 6   | -0.0511           | -0.0774            | 6.5      | 0.0263               | 15.4048 E+04       |
| 7   | -0.0279           | -0.0354            | 3.5      | 0.0075               | 6.5398 E+04        |
| 8   | -0.0198           | -0.0273            | 3.5      | 0.0075               | 6.5398 E+04        |
| 9   | -0.0393           | -0.0546            | 5.0      | 0.0153               | 11.0155 E+04       |
| 10  | -0.0345           | -0.0420            | 3.5      | 0.0075               | 6.5398 E+04        |
| 11  | -0.0198           | -0.0273            | 3.5      | 0.0075               | 6.5398 E+04        |
| 12  | -0.0259           | -0.0334            | 3.5      | 0.0075               | 6.5398 E+04        |

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## SIZE DATA

System name : 0224I

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 15.

| Sec | Shape | Airflow | Velocity | Metal |        | Airflow |        |
|-----|-------|---------|----------|-------|--------|---------|--------|
|     |       | Rate    |          | Width | Height | Width   | Height |
|     |       | L/s     | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 732.0   | 6.1      | 400.0 | 300.0  | 400.0   | 300.0  |
| 2   | REC   | 732.0   | 6.1      | 400.0 | 300.0  | 400.0   | 300.0  |
| 3   | REC   | 732.0   | 6.1      | 400.0 | 300.0  | 400.0   | 300.0  |
| 4   | REC   | 732.0   | 6.1      | 400.0 | 300.0  | 400.0   | 300.0  |
| 5   | REC   | 732.0   | 6.1      | 400.0 | 300.0  | 400.0   | 300.0  |
| 6   | REC   | 439.2   | 4.9      | 300.0 | 300.0  | 300.0   | 300.0  |
| 7   | REC   | 292.8   | 4.7      | 250.0 | 250.0  | 250.0   | 250.0  |
| 8   | REC   | 146.4   | 3.7      | 200.0 | 200.0  | 200.0   | 200.0  |
| 9   | REC   | 146.4   | 3.7      | 200.0 | 200.0  | 200.0   | 200.0  |
| 10  | REC   | 146.4   | 3.7      | 200.0 | 200.0  | 200.0   | 200.0  |
| 11  | REC   | 146.4   | 3.7      | 200.0 | 200.0  | 200.0   | 200.0  |
| 12  | REC   | 292.8   | 4.7      | 250.0 | 250.0  | 250.0   | 250.0  |
| 13  | REC   | 146.4   | 3.7      | 200.0 | 200.0  | 200.0   | 200.0  |
| 14  | REC   | 146.4   | 3.7      | 200.0 | 200.0  | 200.0   | 200.0  |
| 15  | REC   | 146.4   | 3.7      | 200.0 | 200.0  | 200.0   | 200.0  |

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## PRESSURE LOSS DATA

System name : 0224I

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 15.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0011        |
| 2   | 0.0060      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0000          | 0.0082        |
| 3   | 0.0060      | 0.0000                    | 0.0000                | 0.0047       | 0.0000        | 0.0000          | 0.0107        |
| 4   | 0.0060      | 0.0000                    | 0.0000                | 0.0034       | 0.0000        | 0.0000          | 0.0094        |
| 5   | 0.0060      | 0.0000                    | 0.0000                | 0.0025       | 0.0400        | 0.0000          | 0.0486        |
| 6   | 0.0063      | 0.0000                    | 0.0000                | 0.0029       | 0.0000        | 0.0000          | 0.0091        |
| 7   | -0.0005     | 0.0000                    | 0.0000                | 0.0035       | 0.0000        | 0.0000          | 0.0030        |
| 8   | 0.0007      | 0.0000                    | 0.0000                | 0.0063       | 0.0000        | 0.0000          | 0.0071        |
| 9   | 0.0026      | 0.0220                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0266        |
| 10  | 0.0063      | 0.0220                    | 0.0000                | 0.0021       | 0.0000        | 0.0034          | 0.0337        |
| 11  | 0.0057      | 0.0220                    | 0.0000                | 0.0021       | 0.0000        | 0.0069          | 0.0367        |
| 12  | 0.0068      | 0.0000                    | 0.0000                | 0.0043       | 0.0000        | 0.0009          | 0.0120        |
| 13  | 0.0007      | 0.0000                    | 0.0000                | 0.0064       | 0.0000        | 0.0000          | 0.0072        |
| 14  | 0.0026      | 0.0220                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0266        |
| 15  | 0.0063      | 0.0220                    | 0.0000                | 0.0021       | 0.0000        | 0.0035          | 0.0338        |

\*\*\*\*\*



## C-VALUE DATA

System name : 0224I

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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1. C-VALUE DATA FOR SECTIONS 1 THROUGH 15.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0475 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2645  | 0.0000            | 0.0000        | 0.0950 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2645  | 0.0000            | 0.0000        | 0.2045 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2645  | 0.0000            | 0.0000        | 0.1482 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2645  | 0.0000            | 0.0000        | 0.1100 | 1.7499 | 0.0000  |
| 6   | 5   | 0.2750  | 0.0000            | 0.0000        | 0.1952 | 0.0000 | 0.0000  |
| 7   | 6   | -0.0318 | 0.0000            | 0.0000        | 0.2577 | 0.0000 | 0.0000  |
| 8   | 7   | 0.0528  | 0.0000            | 0.0000        | 0.7713 | 0.0000 | 0.0000  |
| 9   | 8   | 0.3120  | 2.6735            | 0.0000        | 0.2506 | 0.0000 | 0.0000  |
| 10  | 7   | 0.4640  | 2.6735            | 0.0000        | 0.2506 | 0.0000 | 0.4096  |
| 11  | 6   | 0.3889  | 2.6735            | 0.0000        | 0.2506 | 0.0000 | 0.8441  |
| 12  | 5   | 0.2979  | 0.0000            | 0.0000        | 0.3216 | 0.0000 | 0.0670  |
| 13  | 12  | 0.0528  | 0.0000            | 0.0000        | 0.7835 | 0.0000 | 0.0000  |
| 14  | 13  | 0.3120  | 2.6735            | 0.0000        | 0.2506 | 0.0000 | 0.0000  |
| 15  | 12  | 0.4640  | 2.6735            | 0.0000        | 0.2506 | 0.0000 | 0.4218  |

\*\*\*\*\*



## FAN DATA PRINTOUT

System name : 0224I

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |               |            |
|---|---------------|------------|
| Fan Airflow Rate .....                        | :             | 732.0 L/s  |
| Fan Static Pressure .....                     | :             | 0.0624 kPa |
| -----   |               |            |
| Total Pressure Difference Across Fan .....    | :             | 0.1239 kPa |
| Static Pressure Difference Across Fan .....   | :             | 0.1239 kPa |
| Velocity Pressure Difference Across Fan ..... | :             | 0.0000 kPa |
| -----   |               |            |
| Fan Inlet / Outlet Data                       | At Inlet      | At Outlet  |
| -----   |               |            |
| Total Pressure .....                          | : 0.0000 kPa  | 0.1239 kPa |
| Static Pressure .....                         | : -0.0614 kPa | 0.0624 kPa |
| Velocity Pressure .....                       | : 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | : 10.0 m/s    | 10.0 m/s   |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.1239 kPa |
| Total Downstream Losses ..... | : | 0.1239 kPa |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |

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PRESSURE LOSS DATA II

System name : 0224I 26-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 15.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.1239            | 0.1010             | 6.1      | 0.0229               | 15.7890 E+04       |
| 2   | 0.1228            | 0.0999             | 6.1      | 0.0229               | 15.7890 E+04       |
| 3   | 0.1146            | 0.0917             | 6.1      | 0.0229               | 15.7890 E+04       |
| 4   | 0.1038            | 0.0810             | 6.1      | 0.0229               | 15.7890 E+04       |
| 5   | 0.0944            | 0.0715             | 6.1      | 0.0229               | 15.7890 E+04       |
| 6   | 0.0458            | 0.0312             | 4.9      | 0.0146               | 10.9671 E+04       |
| 7   | 0.0367            | 0.0232             | 4.7      | 0.0135               | 8.7737 E+04        |
| 8   | 0.0337            | 0.0255             | 3.7      | 0.0082               | 5.4836 E+04        |
| 9   | 0.0266            | 0.0184             | 3.7      | 0.0082               | 5.4836 E+04        |
| 10  | 0.0303            | 0.0221             | 3.7      | 0.0082               | 5.4836 E+04        |
| 11  | 0.0298            | 0.0215             | 3.7      | 0.0082               | 5.4836 E+04        |
| 12  | 0.0449            | 0.0315             | 4.7      | 0.0135               | 8.7737 E+04        |
| 13  | 0.0338            | 0.0256             | 3.7      | 0.0082               | 5.4836 E+04        |
| 14  | 0.0266            | 0.0184             | 3.7      | 0.0082               | 5.4836 E+04        |
| 15  | 0.0303            | 0.0221             | 3.7      | 0.0082               | 5.4836 E+04        |

\*\*\*\*\*



SIZE DATA

System name : 0224R 26-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
 \*\*\*\*\*

1. SIZE DATA FOR SECTIONS 1 THROUGH 12.

| Sec   | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-------|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|       |       |                 |          | Width               | Height | Width                 | Height |
|       |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1     | REC   | 658.8           | 6.6      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 2     | REC   | 658.8           | 6.6      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 3     | REC   | 658.8           | 6.6      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 4     | REC   | 658.8           | 6.6      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 5     | REC   | 658.8           | 6.6      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 6     | REC   | 658.8           | 6.6      | 400.0               | 250.0  | 400.0                 | 250.0  |
| 7     | REC   | 219.6           | 3.5      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 8     | REC   | 219.6           | 3.5      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 9     | REC   | 439.2           | 5.0      | 350.0               | 250.0  | 350.0                 | 250.0  |
| 10    | REC   | 219.6           | 3.5      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 11    | REC   | 219.6           | 3.5      | 250.0               | 250.0  | 250.0                 | 250.0  |
| 12    | REC   | 219.6           | 3.5      | 250.0               | 250.0  | 250.0                 | 250.0  |
| ***** |       |                 |          |                     |        |                       |        |



## PRESSURE LOSS DATA

System name : 0224R

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 12.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0014        |
| 2   | 0.0074      | 0.0000                    | 0.0000                | 0.0028       | 0.0000        | 0.0000          | 0.0102        |
| 3   | 0.0074      | 0.0000                    | 0.0000                | 0.0060       | 0.0000        | 0.0000          | 0.0134        |
| 4   | 0.0074      | 0.0000                    | 0.0000                | 0.0055       | 0.0000        | 0.0000          | 0.0129        |
| 5   | 0.0074      | 0.0000                    | 0.0000                | 0.0101       | 0.0000        | 0.0000          | 0.0174        |
| 6   | 0.0074      | 0.0000                    | 0.0000                | 0.0045       | 0.0300        | 0.0000          | 0.0419        |
| 7   | 0.0051      | 0.0000                    | 0.0000                | 0.0033       | 0.0000        | 0.0113          | 0.0196        |
| 8   | 0.0023      | 0.0170                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0198        |
| 9   | 0.0029      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0047        |
| 10  | 0.0082      | 0.0000                    | 0.0000                | 0.0067       | 0.0000        | 0.0000          | 0.0149        |
| 11  | 0.0023      | 0.0170                    | 0.0000                | 0.0005       | 0.0000        | 0.0000          | 0.0198        |
| 12  | 0.0085      | 0.0170                    | 0.0000                | 0.0005       | 0.0000        | 0.0086          | 0.0347        |

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## C-VALUE DATA

System name : 0224R

26-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

Page 1 Of 1

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1. C-VALUE DATA FOR SECTIONS 1 THROUGH 12.

| Sec | Frm | Fit    | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|--------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000 | 0.0000            | 0.0000        | 0.0525 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2760 | 0.0000            | 0.0000        | 0.1051 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2760 | 0.0000            | 0.0000        | 0.2261 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2760 | 0.0000            | 0.0000        | 0.2071 | 0.0000 | 0.0000  |
| 5   | 4   | 0.2760 | 0.0000            | 0.0000        | 0.3772 | 0.0000 | 0.0000  |
| 6   | 5   | 0.2760 | 0.0000            | 0.0000        | 0.1704 | 1.1252 | 0.0000  |
| 7   | 6   | 0.1900 | 0.0000            | 0.0000        | 0.4300 | 0.0000 | 1.4879  |
| 8   | 7   | 0.3017 | 2.2416            | 0.0000        | 0.0675 | 0.0000 | 0.0000  |
| 9   | 6   | 0.1100 | 0.0000            | 0.0000        | 0.1169 | 0.0000 | 0.0000  |
| 10  | 9   | 0.5300 | 0.0000            | 0.0000        | 0.8790 | 0.0000 | 0.0000  |
| 11  | 10  | 0.3017 | 2.2416            | 0.0000        | 0.0675 | 0.0000 | 0.0000  |
| 12  | 9   | 0.5500 | 2.2416            | 0.0000        | 0.0675 | 0.0000 | 1.1399  |

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## FAN DATA PRINTOUT

System name : 0224R 26-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
 \*\*\*\*\*

## Fan Selection Parameters (Return System)

```

-----
Fan Airflow Rate ..... :      658.8 L/s
Fan Static Pressure ..... :      0.0751 kPa
-----
Total Pressure Difference Across Fan ..... :      0.1366 kPa
Static Pressure Difference Across Fan ..... :      0.1366 kPa
Velocity Pressure Difference Across Fan ..... :      0.0000 kPa
-----
Fan Inlet / Outlet Data                At Inlet                At Outlet
-----
Total Pressure ..... :      -0.1366 kPa      0.0000 kPa
Static Pressure ..... :      -0.1980 kPa     -0.0614 kPa
Velocity Pressure ..... :      0.0614 kPa      0.0614 kPa
Velocity ..... :      10.0 m/s      10.0 m/s
-----

```

## Losses Upstream of Fan

```

-----
Return System Loss ..... :      -0.1366 kPa
Filter Loss ..... :      0.0000 kPa
Other Upstream Losses ..... :      0.0000 kPa
Total Upstream Losses ..... :      -0.1366 kPa
-----

```

## Losses Downstream of Fan

```

-----
Filter Loss ..... :      0.0000 kPa
Other Downstream Losses ..... :      0.0000 kPa
Total Downstream Losses ..... :      0.0000 kPa
-----

```

## Psychrometric Properties

```

-----
Altitude ..... :      0.0 m
Temperature ..... :      12.8 C
Relative Humidity ..... :      100.0 %
Density ..... :      1.2296 kg/cu m
Viscosity ..... :      0.0040 sqm/s
Barometric Pressure ..... :      101.3260 kPa
Vapor Pressure ..... :      1.4734 kPa
-----

```

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PRESSURE LOSS DATA II

System name : 0224R 26-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
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1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 12.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.1366           | -0.1632            | 6.6      | 0.0267               | 15.5001 E+04       |
| 2   | -0.1352           | -0.1618            | 6.6      | 0.0267               | 15.5001 E+04       |
| 3   | -0.1250           | -0.1517            | 6.6      | 0.0267               | 15.5001 E+04       |
| 4   | -0.1116           | -0.1383            | 6.6      | 0.0267               | 15.5001 E+04       |
| 5   | -0.0987           | -0.1254            | 6.6      | 0.0267               | 15.5001 E+04       |
| 6   | -0.0813           | -0.1080            | 6.6      | 0.0267               | 15.5001 E+04       |
| 7   | -0.0281           | -0.0357            | 3.5      | 0.0076               | 6.5803 E+04        |
| 8   | -0.0198           | -0.0274            | 3.5      | 0.0076               | 6.5803 E+04        |
| 9   | -0.0394           | -0.0549            | 5.0      | 0.0155               | 11.0836 E+04       |
| 10  | -0.0347           | -0.0423            | 3.5      | 0.0076               | 6.5803 E+04        |
| 11  | -0.0198           | -0.0274            | 3.5      | 0.0076               | 6.5803 E+04        |
| 12  | -0.0260           | -0.0336            | 3.5      | 0.0076               | 6.5803 E+04        |

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## SIZE DATA

System name : 9105E

25-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

Page 1 Of 1

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 24.

| Sec | Shape | Airflow<br>Rate | Velocity | Metal |        | Airflow |        |
|-----|-------|-----------------|----------|-------|--------|---------|--------|
|     |       |                 |          | Width | Height | Width   | Height |
|     |       | L/s             | m/s      | mm    | mm     | mm      | mm     |
| 1   | REC   | 776.0           | 5.7      | 450.0 | 300.0  | 450.0   | 300.0  |
| 2   | REC   | 776.0           | 5.7      | 450.0 | 300.0  | 450.0   | 300.0  |
| 3   | REC   | 776.0           | 5.7      | 450.0 | 300.0  | 450.0   | 300.0  |
| 4   | REC   | 390.0           | 4.5      | 350.0 | 250.0  | 350.0   | 250.0  |
| 5   | REC   | 315.0           | 4.5      | 350.0 | 200.0  | 350.0   | 200.0  |
| 6   | REC   | 75.0            | 3.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 7   | REC   | 75.0            | 3.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 8   | REC   | 240.0           | 4.8      | 250.0 | 200.0  | 250.0   | 200.0  |
| 9   | REC   | 120.0           | 3.0      | 200.0 | 200.0  | 200.0   | 200.0  |
| 10  | REC   | 120.0           | 3.0      | 200.0 | 200.0  | 200.0   | 200.0  |
| 11  | REC   | 120.0           | 3.0      | 200.0 | 200.0  | 200.0   | 200.0  |
| 12  | REC   | 75.0            | 3.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 13  | REC   | 386.0           | 4.4      | 350.0 | 250.0  | 350.0   | 250.0  |
| 14  | REC   | 192.0           | 3.8      | 250.0 | 200.0  | 250.0   | 200.0  |
| 15  | REC   | 117.0           | 2.9      | 200.0 | 200.0  | 200.0   | 200.0  |
| 16  | REC   | 92.0            | 4.1      | 150.0 | 150.0  | 150.0   | 150.0  |
| 17  | REC   | 92.0            | 4.1      | 150.0 | 150.0  | 150.0   | 150.0  |
| 18  | REC   | 25.0            | 1.1      | 150.0 | 150.0  | 150.0   | 150.0  |
| 19  | REC   | 75.0            | 3.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 20  | REC   | 75.0            | 3.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 21  | REC   | 194.0           | 3.9      | 250.0 | 200.0  | 250.0   | 200.0  |
| 22  | REC   | 97.0            | 4.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 23  | REC   | 97.0            | 4.3      | 150.0 | 150.0  | 150.0   | 150.0  |
| 24  | REC   | 97.0            | 4.3      | 150.0 | 150.0  | 150.0   | 150.0  |

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## PRESSURE LOSS DATA

System name : 9105E

25-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 24.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0009        |
| 2   | 0.0055      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0073        |
| 3   | 0.0055      | 0.0000                    | 0.0000                | 0.0019       | 0.0000        | 0.0000          | 0.0074        |
| 4   | 0.0037      | 0.0000                    | 0.0000                | 0.0031       | 0.0000        | 0.0119          | 0.0188        |
| 5   | 0.0032      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0000          | 0.0048        |
| 6   | 0.0029      | 0.0000                    | 0.0000                | 0.0175       | 0.0000        | 0.0000          | 0.0203        |
| 7   | 0.0023      | 0.0200                    | 0.0000                | 0.0017       | 0.0000        | 0.0000          | 0.0240        |
| 8   | 0.0020      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0010          | 0.0059        |
| 9   | 0.0075      | 0.0000                    | 0.0000                | 0.0081       | 0.0000        | 0.0000          | 0.0157        |
| 10  | 0.0018      | 0.0200                    | 0.0000                | 0.0010       | 0.0000        | 0.0000          | 0.0227        |
| 11  | 0.0078      | 0.0200                    | 0.0000                | 0.0010       | 0.0000        | 0.0096          | 0.0384        |
| 12  | -0.0084     | 0.0200                    | 0.0000                | 0.0022       | 0.0000        | 0.0354          | 0.0491        |
| 13  | 0.0037      | 0.0000                    | 0.0000                | 0.0030       | 0.0000        | 0.0000          | 0.0067        |
| 14  | 0.0063      | 0.0000                    | 0.0000                | 0.0046       | 0.0000        | 0.0109          | 0.0218        |
| 15  | 0.0041      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0047        |
| 16  | 0.0015      | 0.0000                    | 0.0000                | 0.0062       | 0.0000        | 0.0000          | 0.0077        |
| 17  | 0.0033      | 0.0200                    | 0.0000                | 0.0036       | 0.0000        | 0.0000          | 0.0269        |
| 18  | -0.0033     | 0.0200                    | 0.0000                | 0.0004       | 0.0000        | 0.0176          | 0.0347        |
| 19  | 0.0020      | 0.0000                    | 0.0000                | 0.0022       | 0.0000        | 0.0121          | 0.0163        |
| 20  | 0.0023      | 0.0200                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0231        |
| 21  | 0.0067      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0087        |
| 22  | 0.0049      | 0.0000                    | 0.0000                | 0.0226       | 0.0000        | 0.0000          | 0.0275        |
| 23  | 0.0036      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0000          | 0.0250        |
| 24  | 0.0051      | 0.0200                    | 0.0000                | 0.0014       | 0.0000        | 0.0260          | 0.0525        |

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## C-VALUE DATA

System name : 9105E

25-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 24.

```

-----
Sec   Frm       Fit      Equip      Equip      Fric      Other      Balance
      Terminal  Thru
-----
  1     0       0.0000    0.0000    0.0000    0.0447    0.0000    0.0000
  2     1       0.2722    0.0000    0.0000    0.0895    0.0000    0.0000
  3     2       0.2722    0.0000    0.0000    0.0925    0.0000    0.0000
  4     3       0.1826    0.0000    0.0000    0.2549    0.0000    0.9791
  5     4       0.2615    0.0000    0.0000    0.1293    0.0000    0.0000
  6     5       0.2300    0.0000    0.0000    2.5611    0.0000    0.0000
  7     6       0.3319    2.9302    0.0000    0.2514    0.0000    0.0000
  8     5       0.1614    0.0000    0.0000    0.2092    0.0000    0.0678
  9     8       0.5300    0.0000    0.0000    1.4741    0.0000    0.0000
 10     9       0.3224    3.6175    0.0000    0.1738    0.0000    0.0000
 11     8       0.5500    3.6175    0.0000    0.1738    0.0000    1.7453
 12     4      -0.6915    2.9302    0.0000    0.3240    0.0000    5.1792
 13     3       0.1826    0.0000    0.0000    0.2475    0.0000    0.0000
 14    13       0.5310    0.0000    0.0000    0.5101    0.0000    1.2006
 15    14       0.4525    0.0000    0.0000    0.1187    0.0000    0.0000
 16    15       0.2850    0.0000    0.0000    0.6063    0.0000    0.0000
 17    16       0.3214    1.9473    0.0000    0.3536    0.0000    0.0000
 18    15      -0.6280    26.3715    0.0000    0.4619    0.0000    23.2174
 19    14       0.2256    0.0000    0.0000    0.3240    0.0000    1.7684
 20    19       0.3319    2.9302    0.0000    0.1157    0.0000    0.0000
 21    13       0.5624    0.0000    0.0000    0.2171    0.0000    0.0000
 22    21       0.5300    0.0000    0.0000    1.9753    0.0000    0.0000
 23    22       0.3187    1.7517    0.0000    0.1226    0.0000    0.0000
 24    21       0.5500    1.7517    0.0000    0.1226    0.0000    2.2779
-----
*****

```



## FAN DATA PRINTOUT

System name : 9105E 25-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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## Fan Selection Parameters (Return System)

|   |             |             |
|---|-------------|-------------|
| -----   |             |             |
| Fan Airflow Rate .....                        | :           | 776.0 L/s   |
| Fan Static Pressure .....                     | :           | 0.0221 kPa  |
| -----   |             |             |
| Total Pressure Difference Across Fan .....    | :           | 0.0835 kPa  |
| Static Pressure Difference Across Fan .....   | :           | 0.0835 kPa  |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa  |
| -----   |             |             |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet   |
| -----   |             |             |
| Total Pressure .....                          | -0.0835 kPa | 0.0000 kPa  |
| Static Pressure .....                         | -0.1450 kPa | -0.0614 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa  |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s    |
| -----   |             |             |

## Losses Upstream of Fan

|                             |   |             |
|-----------------------------|---|-------------|
| -----                       |   |             |
| Return System Loss .....    | : | -0.0835 kPa |
| Filter Loss .....           | : | 0.0000 kPa  |
| Other Upstream Losses ..... | : | 0.0000 kPa  |
| Total Upstream Losses ..... | : | -0.0835 kPa |
| -----                       |   |             |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| -----                         |   |            |
| Filter Loss .....             | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| Total Downstream Losses ..... | : | 0.0000 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| -----                     |   |                |
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| -----                     |   |                |

\*\*\*\*\*



## PRESSURE LOSS DATA II

System name : 9105E

25-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 24.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.0835           | -0.1038            | 5.7      | 0.0203               | 15.7410 E+04       |
| 2   | -0.0826           | -0.1029            | 5.7      | 0.0203               | 15.7410 E+04       |
| 3   | -0.0753           | -0.0956            | 5.7      | 0.0203               | 15.7410 E+04       |
| 4   | -0.0559           | -0.0681            | 4.5      | 0.0122               | 9.8420 E+04        |
| 5   | -0.0491           | -0.0616            | 4.5      | 0.0124               | 8.8332 E+04        |
| 6   | -0.0443           | -0.0511            | 3.3      | 0.0068               | 3.7456 E+04        |
| 7   | -0.0240           | -0.0308            | 3.3      | 0.0068               | 3.7456 E+04        |
| 8   | -0.0434           | -0.0575            | 4.8      | 0.0142               | 8.0279 E+04        |
| 9   | -0.0384           | -0.0439            | 3.0      | 0.0055               | 4.4947 E+04        |
| 10  | -0.0227           | -0.0283            | 3.0      | 0.0055               | 4.4947 E+04        |
| 11  | -0.0287           | -0.0343            | 3.0      | 0.0055               | 4.4947 E+04        |
| 12  | -0.0138           | -0.0206            | 3.3      | 0.0068               | 3.7456 E+04        |
| 13  | -0.0679           | -0.0798            | 4.4      | 0.0120               | 9.7411 E+04        |
| 14  | -0.0503           | -0.0594            | 3.8      | 0.0091               | 6.4224 E+04        |
| 15  | -0.0394           | -0.0446            | 2.9      | 0.0053               | 4.3824 E+04        |
| 16  | -0.0347           | -0.0449            | 4.1      | 0.0103               | 4.5946 E+04        |
| 17  | -0.0269           | -0.0372            | 4.1      | 0.0103               | 4.5946 E+04        |
| 18  | -0.0170           | -0.0178            | 1.1      | 0.0008               | 1.2485 E+04        |
| 19  | -0.0273           | -0.0341            | 3.3      | 0.0068               | 3.7456 E+04        |
| 20  | -0.0231           | -0.0299            | 3.3      | 0.0068               | 3.7456 E+04        |
| 21  | -0.0612           | -0.0705            | 3.9      | 0.0092               | 6.4893 E+04        |
| 22  | -0.0525           | -0.0639            | 4.3      | 0.0114               | 4.8443 E+04        |
| 23  | -0.0250           | -0.0365            | 4.3      | 0.0114               | 4.8443 E+04        |
| 24  | -0.0265           | -0.0379            | 4.3      | 0.0114               | 4.8443 E+04        |

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## SIZE DATA

System name : 9105V

25-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 23.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 776.0           | 5.7      | 450.0               | 300.0  | 450.0                 | 300.0  |
| 2   | REC   | 776.0           | 5.7      | 450.0               | 300.0  | 450.0                 | 300.0  |
| 3   | REC   | 776.0           | 5.7      | 450.0               | 300.0  | 450.0                 | 300.0  |
| 4   | REC   | 701.0           | 5.2      | 450.0               | 300.0  | 450.0                 | 300.0  |
| 5   | REC   | 461.0           | 5.1      | 300.0               | 300.0  | 300.0                 | 300.0  |
| 6   | REC   | 386.0           | 4.3      | 300.0               | 300.0  | 300.0                 | 300.0  |
| 7   | REC   | 192.0           | 3.8      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 8   | REC   | 167.0           | 4.2      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 9   | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 10  | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 11  | REC   | 92.0            | 4.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 12  | REC   | 25.0            | 1.1      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 13  | REC   | 194.0           | 3.9      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 14  | REC   | 97.0            | 4.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 15  | REC   | 97.0            | 4.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 16  | REC   | 97.0            | 4.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 17  | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 18  | REC   | 240.0           | 4.8      | 250.0               | 200.0  | 250.0                 | 200.0  |
| 19  | REC   | 120.0           | 3.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 20  | REC   | 120.0           | 3.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 21  | REC   | 120.0           | 3.0      | 200.0               | 200.0  | 200.0                 | 200.0  |
| 22  | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |
| 23  | REC   | 75.0            | 3.3      | 150.0               | 150.0  | 150.0                 | 150.0  |

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## PRESSURE LOSS DATA

System name : 9105V

25-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 23.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0009       | 0.0000        | 0.0000          | 0.0009        |
| 2   | 0.0055      | 0.0000                    | 0.0000                | 0.0018       | 0.0000        | 0.0000          | 0.0073        |
| 3   | 0.0055      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0079        |
| 4   | 0.0051      | 0.0000                    | 0.0000                | 0.0008       | 0.0000        | 0.0000          | 0.0059        |
| 5   | -0.0004     | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0007          | 0.0016        |
| 6   | -0.0004     | 0.0000                    | 0.0000                | 0.0026       | 0.0000        | 0.0000          | 0.0023        |
| 7   | 0.0006      | 0.0000                    | 0.0000                | 0.0016       | 0.0000        | 0.0372          | 0.0394        |
| 8   | -0.0000     | 0.0000                    | 0.0000                | 0.0027       | 0.0000        | 0.0000          | 0.0027        |
| 9   | 0.0005      | 0.0000                    | 0.0000                | 0.0065       | 0.0000        | 0.0155          | 0.0225        |
| 10  | 0.0023      | 0.0200                    | 0.0000                | 0.0012       | 0.0000        | 0.0000          | 0.0234        |
| 11  | 0.0060      | 0.0200                    | 0.0000                | 0.0089       | 0.0110        | 0.0000          | 0.0459        |
| 12  | 0.0046      | 0.0200                    | 0.0000                | 0.0009       | 0.0000        | 0.0232          | 0.0486        |
| 13  | 0.0057      | 0.0000                    | 0.0000                | 0.0016       | 0.0320        | 0.0000          | 0.0393        |
| 14  | 0.0004      | 0.0000                    | 0.0000                | 0.0226       | 0.0000        | 0.0000          | 0.0230        |
| 15  | 0.0036      | 0.0200                    | 0.0000                | 0.0021       | 0.0000        | 0.0000          | 0.0258        |
| 16  | 0.0063      | 0.0200                    | 0.0000                | 0.0021       | 0.0000        | 0.0203          | 0.0487        |
| 17  | 0.0084      | 0.0200                    | 0.0000                | 0.0012       | 0.0000        | 0.0608          | 0.0903        |
| 18  | 0.0083      | 0.0000                    | 0.0000                | 0.0024       | 0.0500        | 0.0000          | 0.0607        |
| 19  | 0.0008      | 0.0000                    | 0.0000                | 0.0081       | 0.0000        | 0.0000          | 0.0089        |
| 20  | 0.0018      | 0.0200                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0222        |
| 21  | 0.0057      | 0.0200                    | 0.0000                | 0.0004       | 0.0000        | 0.0051          | 0.0311        |
| 22  | 0.0061      | 0.0000                    | 0.0000                | 0.0085       | 0.0000        | 0.0573          | 0.0719        |
| 23  | 0.0023      | 0.0200                    | 0.0000                | 0.0036       | 0.0000        | 0.0000          | 0.0259        |

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## C-VALUE DATA

System name : 9105V

25-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. C-VALUE DATA FOR SECTIONS 1 THROUGH 23.

| Sec | Frm | Fit     | Equip<br>Terminal | Equip<br>Thru | Fric   | Other  | Balance |
|-----|-----|---------|-------------------|---------------|--------|--------|---------|
| 1   | 0   | 0.0000  | 0.0000            | 0.0000        | 0.0447 | 0.0000 | 0.0000  |
| 2   | 1   | 0.2722  | 0.0000            | 0.0000        | 0.0895 | 0.0000 | 0.0000  |
| 3   | 2   | 0.2722  | 0.0000            | 0.0000        | 0.1147 | 0.0000 | 0.0000  |
| 4   | 3   | 0.2500  | 0.0000            | 0.0000        | 0.0503 | 0.0000 | 0.0000  |
| 5   | 4   | -0.0231 | 0.0000            | 0.0000        | 0.0808 | 0.0000 | 0.0407  |
| 6   | 5   | -0.0225 | 0.0000            | 0.0000        | 0.2335 | 0.0000 | 0.0000  |
| 7   | 6   | 0.0511  | 0.0000            | 0.0000        | 0.1766 | 0.0000 | 4.1086  |
| 8   | 7   | -0.0022 | 0.0000            | 0.0000        | 0.2529 | 0.0000 | 0.0000  |
| 9   | 8   | 0.0512  | 0.0000            | 0.0000        | 0.9505 | 0.0000 | 2.2638  |
| 10  | 9   | 0.3319  | 2.9302            | 0.0000        | 0.1694 | 0.0000 | 0.0000  |
| 11  | 8   | 0.5643  | 1.9473            | 0.0000        | 0.8634 | 1.0710 | 0.0000  |
| 12  | 7   | 0.5045  | 26.3715           | 0.0000        | 1.1278 | 0.0000 | 30.5550 |
| 13  | 6   | 0.5014  | 0.0000            | 0.0000        | 0.1735 | 3.4602 | 0.0000  |
| 14  | 13  | 0.0440  | 0.0000            | 0.0000        | 1.9753 | 0.0000 | 0.0000  |
| 15  | 14  | 0.3187  | 1.7517            | 0.0000        | 0.1860 | 0.0000 | 0.0000  |
| 16  | 13  | 0.6760  | 1.7517            | 0.0000        | 0.1860 | 0.0000 | 1.7821  |
| 17  | 5   | 0.5187  | 2.9302            | 0.0000        | 0.1694 | 0.0000 | 8.9006  |
| 18  | 4   | 0.5038  | 0.0000            | 0.0000        | 0.1672 | 3.5327 | 0.0000  |
| 19  | 18  | 0.0560  | 0.0000            | 0.0000        | 1.4741 | 0.0000 | 0.0000  |
| 20  | 19  | 0.3224  | 3.6175            | 0.0000        | 0.0734 | 0.0000 | 0.0000  |
| 21  | 18  | 0.4000  | 3.6175            | 0.0000        | 0.0734 | 0.0000 | 0.9159  |
| 22  | 3   | 0.3000  | 0.0000            | 0.0000        | 1.2415 | 0.0000 | 8.3948  |
| 23  | 22  | 0.3319  | 2.9302            | 0.0000        | 0.5306 | 0.0000 | 0.0000  |

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## FAN DATA PRINTOUT

System name : 9105V

25-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## Fan Selection Parameters (Supply System)

|   |             |            |
|---|-------------|------------|
| Fan Airflow Rate .....                        | :           | 776.0 L/s  |
| Fan Static Pressure .....                     | :           | 0.0524 kPa |
| -----   |             |            |
| Total Pressure Difference Across Fan .....    | :           | 0.1138 kPa |
| Static Pressure Difference Across Fan .....   | :           | 0.1138 kPa |
| Velocity Pressure Difference Across Fan ..... | :           | 0.0000 kPa |
| -----   |             |            |
| Fan Inlet / Outlet Data                       | At Inlet    | At Outlet  |
| -----   |             |            |
| Total Pressure .....                          | 0.0000 kPa  | 0.1138 kPa |
| Static Pressure .....                         | -0.0614 kPa | 0.0524 kPa |
| Velocity Pressure .....                       | 0.0614 kPa  | 0.0614 kPa |
| Velocity .....                                | 10.0 m/s    | 10.0 m/s   |
| -----   |             |            |

## Losses Upstream of Fan

|                             |   |            |
|-----------------------------|---|------------|
| Intake Loss .....           | : | 0.0000 kPa |
| Plenum Loss .....           | : | 0.0000 kPa |
| Return System Loss .....    | : | 0.0000 kPa |
| Filter Loss .....           | : | 0.0000 kPa |
| Coil Loss .....             | : | 0.0000 kPa |
| Other Upstream Losses ..... | : | 0.0000 kPa |
| Total Upstream Losses ..... | : | 0.0000 kPa |
| -----                       |   |            |

## Losses Downstream of Fan

|                               |   |            |
|-------------------------------|---|------------|
| Filter Loss .....             | : | 0.0000 kPa |
| Coil Loss .....               | : | 0.0000 kPa |
| Other Downstream Losses ..... | : | 0.0000 kPa |
| System Effect Loss .....      | : | 0.0000 kPa |
| Supply System Loss .....      | : | 0.1138 kPa |
| Total Downstream Losses ..... | : | 0.1138 kPa |
| -----                         |   |            |

## Psychrometric Properties

|                           |   |                |
|---------------------------|---|----------------|
| Altitude .....            | : | 0.0 m          |
| Temperature .....         | : | 12.8 C         |
| Relative Humidity .....   | : | 100.0 %        |
| Density .....             | : | 1.2296 kg/cu m |
| Viscosity .....           | : | 0.0040 sqm/s   |
| Barometric Pressure ..... | : | 101.3260 kPa   |
| Vapor Pressure .....      | : | 1.4734 kPa     |
| *****                     |   |                |



## PRESSURE LOSS DATA II

System name : 9105V

25-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 23.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | 0.1138            | 0.0936             | 5.7      | 0.0203               | 15.7410 E+04       |
| 2   | 0.1129            | 0.0926             | 5.7      | 0.0203               | 15.7410 E+04       |
| 3   | 0.1056            | 0.0853             | 5.7      | 0.0203               | 15.7410 E+04       |
| 4   | 0.0977            | 0.0812             | 5.2      | 0.0166               | 14.2196 E+04       |
| 5   | 0.0912            | 0.0751             | 5.1      | 0.0161               | 11.5115 E+04       |
| 6   | 0.0903            | 0.0790             | 4.3      | 0.0113               | 9.6387 E+04        |
| 7   | 0.0508            | 0.0417             | 3.8      | 0.0091               | 6.4224 E+04        |
| 8   | 0.0486            | 0.0379             | 4.2      | 0.0107               | 6.2552 E+04        |
| 9   | 0.0305            | 0.0236             | 3.3      | 0.0068               | 3.7456 E+04        |
| 10  | 0.0234            | 0.0166             | 3.3      | 0.0068               | 3.7456 E+04        |
| 11  | 0.0459            | 0.0356             | 4.1      | 0.0103               | 4.5946 E+04        |
| 12  | 0.0254            | 0.0247             | 1.1      | 0.0008               | 1.2485 E+04        |
| 13  | 0.0880            | 0.0787             | 3.9      | 0.0092               | 6.4893 E+04        |
| 14  | 0.0487            | 0.0373             | 4.3      | 0.0114               | 4.8443 E+04        |
| 15  | 0.0258            | 0.0143             | 4.3      | 0.0114               | 4.8443 E+04        |
| 16  | 0.0284            | 0.0170             | 4.3      | 0.0114               | 4.8443 E+04        |
| 17  | 0.0295            | 0.0227             | 3.3      | 0.0068               | 3.7456 E+04        |
| 18  | 0.0918            | 0.0777             | 4.8      | 0.0142               | 8.0279 E+04        |
| 19  | 0.0311            | 0.0256             | 3.0      | 0.0055               | 4.4947 E+04        |
| 20  | 0.0222            | 0.0167             | 3.0      | 0.0055               | 4.4947 E+04        |
| 21  | 0.0261            | 0.0205             | 3.0      | 0.0055               | 4.4947 E+04        |
| 22  | 0.0404            | 0.0336             | 3.3      | 0.0068               | 3.7456 E+04        |
| 23  | 0.0259            | 0.0191             | 3.3      | 0.0068               | 3.7456 E+04        |

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## SIZE DATA

System name : CTEXT

25-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. SIZE DATA FOR SECTIONS 1 THROUGH 15.

| Sec | Shape | Airflow<br>Rate | Velocity | <----- Metal -----> |        | <----- Airflow -----> |        |
|-----|-------|-----------------|----------|---------------------|--------|-----------------------|--------|
|     |       |                 |          | Width               | Height | Width                 | Height |
|     |       | L/s             | m/s      | mm                  | mm     | mm                    | mm     |
| 1   | REC   | 8550.0          | 10.7     | 1000.0              | 800.0  | 1000.0                | 800.0  |
| 2   | REC   | 8550.0          | 10.7     | 1000.0              | 800.0  | 1000.0                | 800.0  |
| 3   | REC   | 8550.0          | 10.7     | 1000.0              | 800.0  | 1000.0                | 800.0  |
| 4   | REC   | 8550.0          | 8.6      | 1000.0              | 1000.0 | 1000.0                | 1000.0 |
| 5   | REC   | 8550.0          | 8.6      | 1000.0              | 1000.0 | 1000.0                | 1000.0 |
| 6   | REC   | 5130.0          | 6.4      | 1000.0              | 800.0  | 1000.0                | 800.0  |
| 7   | REC   | 3420.0          | 5.7      | 1000.0              | 600.0  | 1000.0                | 600.0  |
| 8   | REC   | 1710.0          | 4.3      | 800.0               | 500.0  | 800.0                 | 500.0  |
| 9   | REC   | 1710.0          | 4.3      | 800.0               | 500.0  | 800.0                 | 500.0  |
| 10  | REC   | 1710.0          | 4.3      | 800.0               | 500.0  | 800.0                 | 500.0  |
| 11  | REC   | 1710.0          | 4.3      | 800.0               | 500.0  | 800.0                 | 500.0  |
| 12  | REC   | 3420.0          | 5.7      | 1000.0              | 600.0  | 1000.0                | 600.0  |
| 13  | REC   | 1710.0          | 4.3      | 800.0               | 500.0  | 800.0                 | 500.0  |
| 14  | REC   | 1710.0          | 4.3      | 800.0               | 500.0  | 800.0                 | 500.0  |
| 15  | REC   | 1710.0          | 4.3      | 800.0               | 500.0  | 800.0                 | 500.0  |

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## PRESSURE LOSS DATA

System name : CTEXT

25-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

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## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 15.

| Sec | Fit<br>Loss | Equip<br>Terminal<br>Loss | Equip<br>Thru<br>Loss | Fric<br>Loss | Other<br>Loss | Balance<br>Loss | Total<br>Loss |
|-----|-------------|---------------------------|-----------------------|--------------|---------------|-----------------|---------------|
|     | kPa         | kPa                       | kPa                   | kPa          | kPa           | kPa             | kPa           |
| 1   | 0.0000      | 0.0000                    | 0.0000                | 0.0020       | 0.0000        | 0.0000          | 0.0020        |
| 2   | 0.0182      | 0.0000                    | 0.0000                | 0.0011       | 0.0000        | 0.0000          | 0.0193        |
| 3   | 0.0024      | 0.0000                    | 0.0000                | 0.0013       | 0.0000        | 0.0000          | 0.0037        |
| 4   | 0.0014      | 0.0000                    | 0.0000                | 0.0007       | 0.0000        | 0.0000          | 0.0022        |
| 5   | 0.0108      | 0.0000                    | 0.0000                | 0.0023       | 0.0000        | 0.0000          | 0.0131        |
| 6   | 0.0060      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0066        |
| 7   | 0.0103      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0000          | 0.0109        |
| 8   | 0.0106      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0110        |
| 9   | 0.0031      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0232        |
| 10  | 0.0110      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0031          | 0.0342        |
| 11  | -0.0010     | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0260          | 0.0450        |
| 12  | 0.0089      | 0.0000                    | 0.0000                | 0.0006       | 0.0000        | 0.0079          | 0.0174        |
| 13  | 0.0106      | 0.0000                    | 0.0000                | 0.0004       | 0.0000        | 0.0000          | 0.0110        |
| 14  | 0.0031      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0000          | 0.0232        |
| 15  | 0.0110      | 0.0200                    | 0.0000                | 0.0001       | 0.0000        | 0.0031          | 0.0342        |

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## C-VALUE DATA

System name : CTEXT 25-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1

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1. C-VALUE DATA FOR SECTIONS 1 THROUGH 15.

```
-----
Sec   Frm       Fit      Equip      Equip      Fric      Other      Balance
      Terminal  Thru
-----
  1     0       0.0000    0.0000    0.0000    0.0284    0.0000    0.0000
  2     1       0.2599    0.0000    0.0000    0.0152    0.0000    0.0000
  3     2       0.0338    0.0000    0.0000    0.0191    0.0000    0.0000
  4     3       0.0314    0.0000    0.0000    0.0167    0.0000    0.0000
  5     4       0.2415    0.0000    0.0000    0.0503    0.0000    0.0000
  6     5       0.1340    0.0000    0.0000    0.0218    0.0000    0.0000
  7     6       0.4067    0.0000    0.0000    0.0292    0.0000    0.0000
  8     7       0.5300    0.0000    0.0000    0.0388    0.0000    0.0000
  9     8       0.2760    1.7815    0.0000    0.0051    0.0000    0.0000
 10     7       0.5500    1.7815    0.0000    0.0051    0.0000    0.2792
 11     6      -0.0400    1.7815    0.0000    0.0051    0.0000    2.3139
 12     5       0.1980    0.0000    0.0000    0.0319    0.0000    0.3956
 13    12       0.5300    0.0000    0.0000    0.0388    0.0000    0.0000
 14    13       0.2760    1.7815    0.0000    0.0051    0.0000    0.0000
 15    12       0.5500    1.7815    0.0000    0.0051    0.0000    0.2792
*****
```



## FAN DATA PRINTOUT

System name : CTEXT 25-06-24  
 Prepared by : G.O.C. 61017002.16  
 E20-II DuctLINK Program Page 1 Of 1  
 \*\*\*\*\*

## Fan Selection Parameters (Return System)

```

-----
Fan Airflow Rate ..... :      8550.0 L/s
Fan Static Pressure ..... :      0.0304 kPa
-----
Total Pressure Difference Across Fan ..... :      0.0919 kPa
Static Pressure Difference Across Fan ..... :      0.0919 kPa
Velocity Pressure Difference Across Fan ..... :      0.0000 kPa
-----
Fan Inlet / Outlet Data                At Inlet                At Outlet
-----
Total Pressure ..... :      -0.0919 kPa                0.0000 kPa
Static Pressure ..... :      -0.1533 kPa               -0.0614 kPa
Velocity Pressure ..... :      0.0614 kPa                0.0614 kPa
Velocity ..... :      10.0 m/s                10.0 m/s
-----

```

## Losses Upstream of Fan

```

-----
Return System Loss ..... :      -0.0919 kPa
Filter Loss ..... :      0.0000 kPa
Other Upstream Losses ..... :      0.0000 kPa
Total Upstream Losses ..... :      -0.0919 kPa
-----

```

## Losses Downstream of Fan

```

-----
Filter Loss ..... :      0.0000 kPa
Other Downstream Losses ..... :      0.0000 kPa
Total Downstream Losses ..... :      0.0000 kPa
-----

```

## Psychrometric Properties

```

-----
Altitude ..... :      0.0 m
Temperature ..... :      12.8 C
Relative Humidity ..... :      100.0 %
Density ..... :      1.2296 kg/cu m
Viscosity ..... :      0.0040 sqm/s
Barometric Pressure ..... :      101.3260 kPa
Vapor Pressure ..... :      1.4734 kPa
-----
*****

```



## PRESSURE LOSS DATA II

System name : CTEXT

25-06-24

Prepared by : G.O.C.

61017002.16

E20-II DuctLINK Program

Page 1 Of 1

\*\*\*\*\*

## 1. PRESSURE LOSS DATA FOR SECTIONS 1 THROUGH 15.

| Sec | Total<br>Pressure | Static<br>Pressure | Velocity | Velocity<br>Pressure | Reynolds<br>Number |
|-----|-------------------|--------------------|----------|----------------------|--------------------|
|     | kPa               | kPa                | m/s      | kPa                  |                    |
| 1   | -0.0919           | -0.1620            | 10.7     | 0.0702               | 71.4989 E+04       |
| 2   | -0.0899           | -0.1600            | 10.7     | 0.0702               | 71.4989 E+04       |
| 3   | -0.0706           | -0.1407            | 10.7     | 0.0702               | 71.4989 E+04       |
| 4   | -0.0669           | -0.1118            | 8.6      | 0.0449               | 64.0499 E+04       |
| 5   | -0.0647           | -0.1096            | 8.6      | 0.0449               | 64.0499 E+04       |
| 6   | -0.0516           | -0.0769            | 6.4      | 0.0253               | 42.8993 E+04       |
| 7   | -0.0450           | -0.0650            | 5.7      | 0.0200               | 32.8095 E+04       |
| 8   | -0.0342           | -0.0454            | 4.3      | 0.0112               | 20.1163 E+04       |
| 9   | -0.0232           | -0.0344            | 4.3      | 0.0112               | 20.1163 E+04       |
| 10  | -0.0310           | -0.0423            | 4.3      | 0.0112               | 20.1163 E+04       |
| 11  | -0.0190           | -0.0303            | 4.3      | 0.0112               | 20.1163 E+04       |
| 12  | -0.0437           | -0.0637            | 5.7      | 0.0200               | 32.8095 E+04       |
| 13  | -0.0342           | -0.0454            | 4.3      | 0.0112               | 20.1163 E+04       |
| 14  | -0.0232           | -0.0344            | 4.3      | 0.0112               | 20.1163 E+04       |
| 15  | -0.0310           | -0.0423            | 4.3      | 0.0112               | 20.1163 E+04       |

\*\*\*\*\*



## **2.- CARACTERÍSTICAS TÉCNICAS DE LOS EQUIPOS**



## **2.1.- CLIMATIZADORES**



Ficha técnica  
 UTA19 PLANTA 00



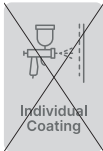
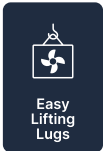
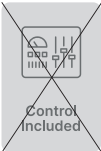
Número de oferta  
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|                        |  |                                  |
|------------------------|--|----------------------------------|
| Cliente<br>GOC         | Proyecto / Referencia<br>UTA19 PLANTA 00 | LV-Pos./Adjunto                  |
| Su persona de contacto | Su referencia                            | Nuestro responsable del proyecto |

El equipo en un vistazo

|  |   |
|--|---|
| Tipo del flujo de aire                     | Impulsión   |
| Tamaño (Imp/Ret)                           | AHUW TE EC 170  |
| Variante de equipo                         | TE EC   |
| Disposición                                | Horizontal simple                                       |
| Ubicación                                  | Instalación en el exterior (resistente a la intemperie) |
| Variante                                   | Estándar  |
| Tratamiento de la superficie de la carcasa | galvanizado   |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Deshumectar                    |
| Recuperación de calor                      | ninguna   |

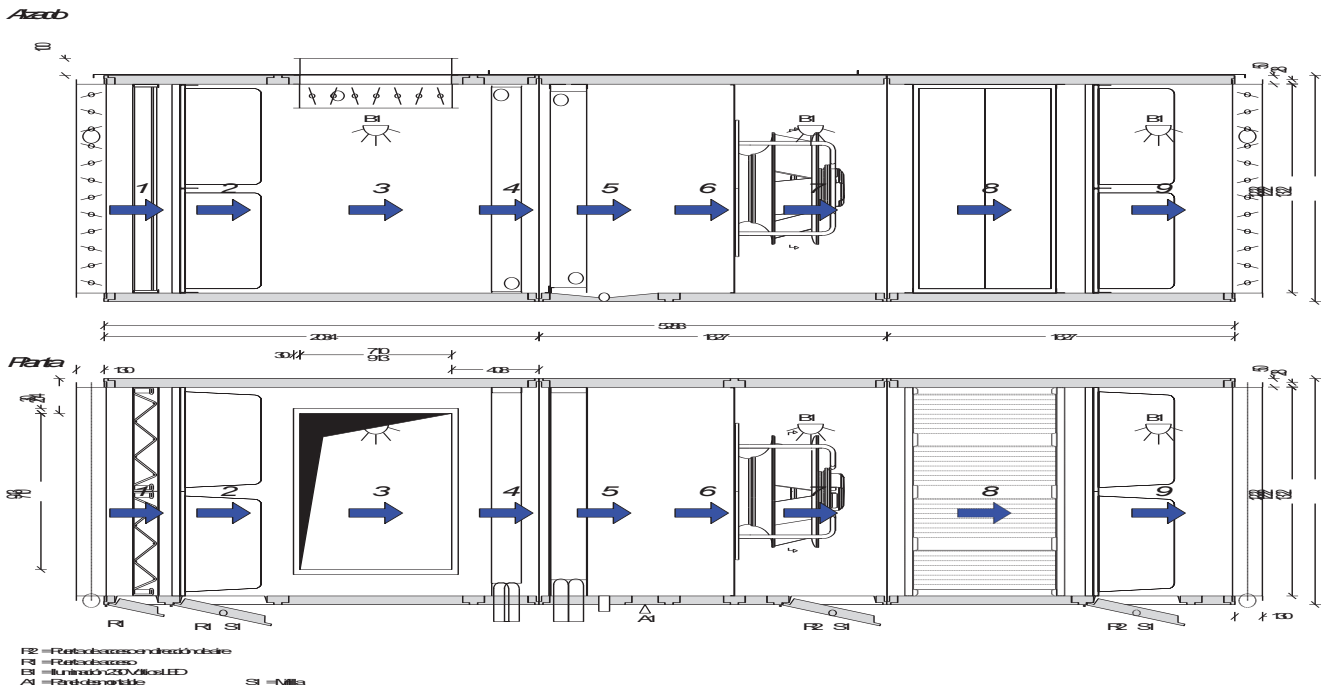


|   | Impulsión   | Retorno   |
|---|---|-----------|
| Caudal de aire                                      | 10080 m³/h  | 2,80 m³/s |
| Presión / pérdida de carga externa                  | 350 Pa  |           |
| Velocidad del aire Etiqueta energética Eurovent     | 1,88 m/s  |           |
| Velocidad del aire (clase según DIN EN 13053)       | 1,9 m/s (V3)  |           |
| Dimensiones (Largo,Ancho,Altura)                    | 5288 x 1322 x 1322 mm   |           |
| Bancada   | no incluido   |           |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |           |
| Peso  | 1074 kg   |           |
| Corriente máxima consumida de los ventiladores      | 6,5 A   |           |
| Potencia máxima conectada de los ventiladores       | 4,25 KW   |           |
| Potencia de calor necesaria (BAC)                   | 28,08 kW  |           |
| Potencia de frío necesaria (BAF)                    | 43,28 kW  |           |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A <sub>C</sub>  |           |
| Eficiencia energética RLT                           | A   |           |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |           |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.





Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890  | ISO Coarse 60% |
|---|----------------|
| Pérdida de carga inicial (limpio)   | 24 Pa          |
| Pérdida de carga seleccionada   | 48 Pa          |
| Pérdida de carga final  | 72 Pa          |
| Energieverbrauch (Eurovent 4/21: -)   | - kWh          |
| Superficie del filtro   | 2,07 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 1222 x 1222 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga  | 2 Pa           |

Filtro sin marco G4  
 Rieles para filtro de manta, Rieles de filtro de manta  
 Puerta de acceso, Sujeta puerta - palanca de cierre

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 83 Pa        |
| Pérdida de carga seleccionada       | 133 Pa       |
| Pérdida de carga final              | 183 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 21,56 m²     |



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Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Puerta de acceso, Sujeta puerta - palanca de cierre

(3) Módulo de mezcla/módulo vacío

Compuerta de la clase 2 según la DIN EN 1751, KGW conexión interior, 714 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm

Pérdida de carga 11 Pa

Marco de conexión al canal, KGW conexión con contramarco suelto, 710 x 913  
Alumbrado, 230V LED, montado y cableado

(4) Batería de calor

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 1 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/2 Pulgadas - 1 1/2 Pulgadas |
| Temperatura de aire de entrada        | 14,7 °C                         |
| Temperatura de aire de salida         | 23 °C                           |
| Potencia (total)                      | 28,08 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 1,63 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 19 Pa                           |
| Pérdida de carga en el lado del medio | 1,28 kPa                        |
| Velocidad del aire                    | 2,29 m/s                        |
| Contenido de agua                     | 8,8 l                           |
| Densidad del aire                     | 1,2 kg/m³                       |

Lacado

(5) Batería de frío

|   |                                 |
|---|---------------------------------|
| Tipo de batería                             | W/38/1047/4R/22K/3.0Cu,12/Al-L1 |
| Conexión (entrada/salida)                   | DN 40, 1 1/2" - DN 40, 1 1/2"   |
| Temperatura de aire de entrada              | 28,4 °C                         |
| Humedad relativa                            | 27,0 %                          |
| Temperatura de aire de salida               | 15,8 °C                         |
| Humedad relativa                            | 58,1 %                          |
| Potencia (latente)                          | 0,02 kW                         |
| Potencia (sensible)                         | 43,26 kW                        |
| Potencia (total)                            | 43,28 kW                        |
| Pérdida de carga en el lado del aire (seco) | 53 Pa                           |
| Entrada del medio                           | 7 °C                            |
| Salida del medio                            | 12 °C                           |
| Cantidad de líquido                         | 7,44 m³/h                       |
| Pérdida de carga en el lado del medio       | 20,3 kPa                        |
| Velocidad del aire                          | 2,35 m/s                        |
| Contenido de agua                           | 20,8 l                          |



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|                   |           |
|-------------------|-----------|
| Densidad del aire | 1,2 kg/m³ |
|-------------------|-----------|

Rieles de acero inoxidable V2A  
Bandeja en acero inoxidable 1306 KGT  
Salida de condensados: DN32, 1 1/4 Pulgadas

(6) Módulo vacío 305

(7) Ventilador, Giro libre con motor EC

|  |   |
|--|---|
| Caudal de aire                               | 10080 m³/h                              |
| Pérdida de carga externa                     | 350 Pa                                  |
| Presión interna del ventilador               | 8 Pa                                    |
| Pérdida de carga interna                     | 476 Pa                                  |
| Pérdida de carga dinámica                    | 41 Pa                                   |
| Pérdida de carga total                       | 875 Pa                                  |
| Tipo de ventilador                           | VMF560-4,25/400EC-1700                  |
| Número de revoluciones del ventilador        | 1553 1/min                              |
| Número de revoluciones máximo del ventilador | 1700 1/min                              |
| Rendimiento total                            | 70,7 %                                  |
| Corriente del motor                          | 5,31 A                                  |
| Corriente máxima del motor                   | 6,50 A                                  |
| Máxima potencia del motor                    | 4,25 kW                                 |
| Tensión del motor                            | 3*400 V                                 |
| Tensión de mando                             | 8,2 V                                   |
| Valor K                                      | 348                                     |
| Clase de eficiencia energética               | corresponde a IE5                       |
| Potencia eléctrica activa Pm                 | 3,47 kW                                 |
| Potencia consumida en las condiciones SFPv   | 2,99 kW                                 |
| SFP (Potencia específica del ventilador)     | 1,07 kW/(m³/s)                          |
|  | 0,296 W/(m³/h)                          |
| Tipo   | 2139796                                 |
| SFP según EN 16798-3                         | SFP3                                    |
| Clase-P según EN 13053 Pm ref: 4,79 kW       | P1                                      |
| Densidad del aire                            | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]                    | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración                     | 48 63 69 69 75 74 74 66 80              |
| Lw(A) lado de impulsión                      | 51 65 70 77 81 78 77 70 85              |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire, Sujeta puerta - palanca de cierre



**Ficha técnica**  
**UTA19 PLANTA 00**Número de oferta  
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26/06/2024**(8) Silenciador tipo 11**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 33 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11  
Colisas del silenciador extraíbles para profundidad de 230 mm

**(9) Filtro ISO ePM1 85%**

|   |              |
|---|--------------|
| EN ISO 16890  | ISO ePM1 85% |
| Pérdida de carga inicial (limpio)   | 125 Pa       |
| Pérdida de carga seleccionada   | 175 Pa       |
| Pérdida de carga final  | 225 Pa       |
| Energieverbrauch (Eurovent 4/21: -)   | 3081 kWh     |
| Superficie del filtro   | 21,56 m²     |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 1222 x 1222 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |              |
| Pérdida de carga  | 2 Pa         |

Filtro de bolsa F9 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire, Sujeta puerta - palanca de cierre

**Resumen de accesorios**

- 3 Alumbrado, 230V LED, montado y cableado
- 3 Mirilla
- 1 Puerta de acceso
- 3 Puerta de acceso
- 4 Sujeta puerta - palanca de cierre
- 1 Toma de presión conducida hasta el exterior del equipo

**Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)**

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|                                 |  |
|---------------------------------|--|
| Tipo de equipo                  | Unidad de ventilación unidireccional (UVU) |
| DeltaP Filtro                   | 83 Pa                                      |
| DeltaPs,int                     | 83 Pa                                      |
| DeltaPs, adicional              | 269 Pa                                     |
| Eficiencia recuperador/objetivo | -  |
| Ventilador Eficiencia/objetivo  | 66,71 / 49,71 %                            |
| Vent. eta opt. EU:327/2011      | (7) 70,1%                                  |
| Grado de eficiencia N           | (7) 74,1                                   |



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|  |                    |
|--|--------------------|
| Vent. eta stat. eingebaut  | (7) 66,7%          |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 124 / 230 W/(m³/s) |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 0,73 %             |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,45 %             |

Notas:

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014. Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva. Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo. El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética. Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



Ficha técnica  
CL09 CAFETERIA SERVICIOS AFECTADOS



Número de oferta  
JP-49140 / 22

Fecha  
11/03/2020

Cliente  
GOC

Proyecto / Referencia  
CL09 CAFETERIA  
SERVICIOS AFECTADOS

LV-Pos./Adjunto

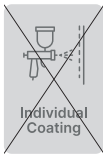
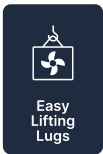
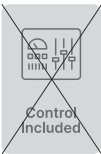
Su persona de contacto

Su referencia

Nuestro responsable del proyecto

El equipo en un vistazo

|  |   |
|--|---|
| Tipo del flujo de aire                     | Impulsión   |
| Tamaño (Imp/Ret)                           | AHUW TE EC 130  |
| Variante de equipo                         | TE EC   |
| Disposición                                | Horizontal simple                                       |
| Ubicación                                  | Instalación en el exterior (resistente a la intemperie) |
| Variante                                   | Estándar  |
| Tratamiento de la superficie de la carcasa | galvanizado   |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío                                  |
| Recuperación de calor                      | ninguna   |

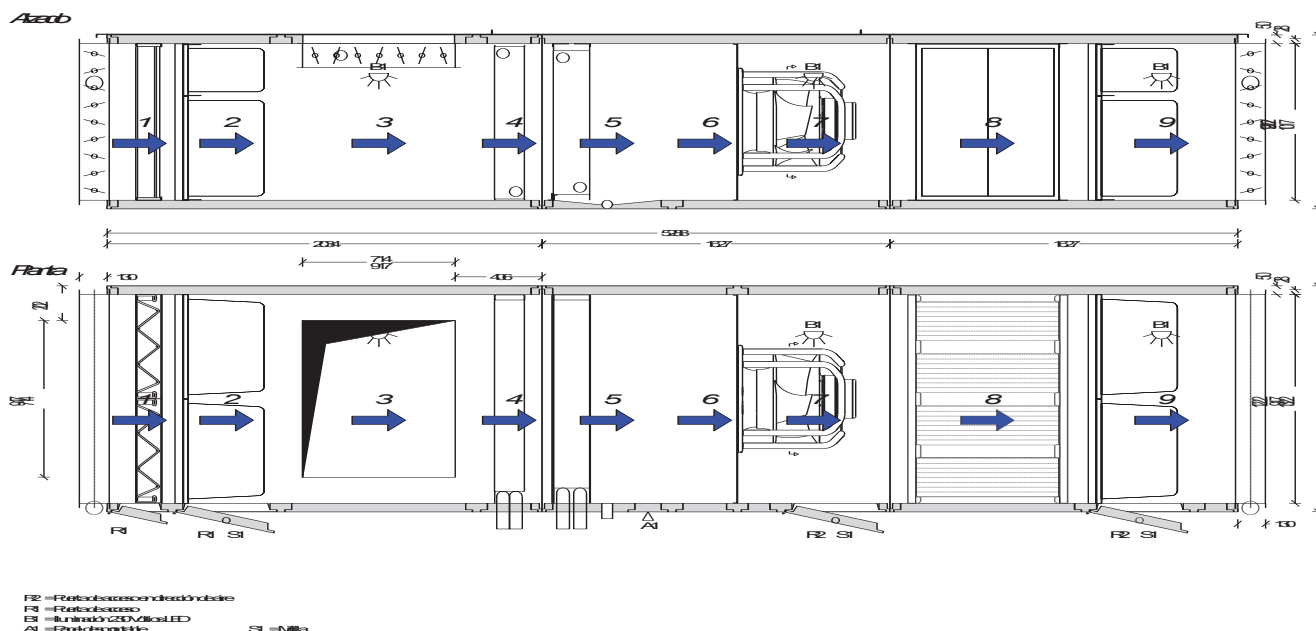


|   |   |         |
|---|---|---------|
|   | Impulsión   | Retorno |
| Caudal de aire                                      | 7920 m³/h 2,20 m³/s   |         |
| Presión / pérdida de carga externa                  | 300 Pa  |         |
| Velocidad del aire Etiqueta energética Eurovent     | 1,97 m/s  |         |
| Velocidad del aire (clase según DIN EN 13053)       | 2,0 m/s (V3)  |         |
| Dimensiones (Largo,Ancho,Altura)                    | 5288 x 1322 x 1017 mm   |         |
| Bancada   | no incluido   |         |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |         |
| Peso  | 953 kg  |         |
| Corriente máxima consumida de los ventiladores      | 5,6 A   |         |
| Potencia máxima conectada de los ventiladores       | 3,5 KW  |         |
| Potencia de calor necesaria (BAC)                   | 20,2 kW   |         |
| Potencia de frío necesaria (BAF)                    | 28,31 kW  |         |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A <sub>C</sub>  |         |
| Eficiencia energética RLT                           | A   |         |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |         |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.





## Datos técnicos

## Impulsión

**(1) Filter ISO Coarse 60%**

|  |                |
|--|----------------|
| EN ISO 16890   | ISO Coarse 60% |
| Pérdida de carga inicial (limpio)                                    | 25 Pa          |
| Pérdida de carga seleccionada  | 50 Pa          |
| Pérdida de carga final   | 75 Pa          |
| Energieverbrauch (Eurovent 4/21: -)                                  | - kWh          |
| Superficie del filtro  | 1,54 m²        |
| Compuerta de la clase 1 según la DIN EN 1751, Q exterior, 917 x 1222 |                |
| Pérdida de carga   | 3 Pa           |

Filtro sin marco G4

Filtro extraíble para filtro de manta, Riel para filtro de manta

Puerta de acceso, Sujeta puerta - palanca de cierre

**(2) Filtro ISO ePM1 50%**

|                                     |              |
|-------------------------------------|--------------|
| EN ISO 16890                        | ISO ePM1 50% |
| Pérdida de carga inicial (limpio)   | 87 Pa        |
| Pérdida de carga seleccionada       | 137 Pa       |
| Pérdida de carga final              | 187 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 16,18 m²     |



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Fecha

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Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Puerta de acceso, Sujeta puerta - palanca de cierre

**(3) Módulo de mezcla/módulo vacío**

Compuerta de la clase 1 según la DIN EN 1751, KGW conexión interior, 714 x 917

Pérdida de carga 12 Pa

Alumbrado, 230V LED, montado y cableado

**(4) Módulo de la batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 1 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/4 Pulgadas - 1 1/4 Pulgadas |
| Temperatura de aire de entrada        | 14,4 °C                         |
| Temperatura de aire de salida         | 22 °C                           |
| Potencia (total)                      | 20,2 kW                         |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 1,18 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 23 Pa                           |
| Pérdida de carga en el lado del medio | 1,22 kPa                        |
| Velocidad del aire                    | 2,42 m/s                        |
| Contenido de agua                     | 6,55 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

Lacado

**(5) Módulo de batería de frío**

|   |                                 |
|---|---------------------------------|
| Tipo de batería                             | W/28/1054/3R/16K/2.8Cu,12/Al-L1 |
| Conexión (entrada/salida)                   | DN 32, 1 1/4" - DN 32, 1 1/4"   |
| Temperatura de aire de entrada              | 28,4 °C                         |
| Humedad relativa                            | 27,0 %                          |
| Temperatura de aire de salida               | 17,9 °C                         |
| Humedad relativa                            | 50,9 %                          |
| Potencia (sensible)                         | 28,31 kW                        |
| Potencia (total)                            | 28,31 kW                        |
| Pérdida de carga en el lado del aire (seco) | 50 Pa                           |
| Entrada del medio                           | 7 °C                            |
| Salida del medio                            | 12 °C                           |
| Cantidad de líquido                         | 4,87 m³/h                       |
| Pérdida de carga en el lado del medio       | 15,3 kPa                        |
| Velocidad del aire                          | 2,48 m/s                        |
| Contenido de agua                           | 11,4 l                          |
| Densidad del aire                           | 1,2 kg/m³                       |

Rieles de introducciónn acero inoxidable V2A



**Ficha técnica****CL09 CAFETERIA SERVICIOS AFECTADOS**

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JP-49140 / 22

Fecha

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Bandeja en acero inoxidable 1306 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

**(6) Módulo vacío 305****(7) Ventilador, Giro libre con motor EC**

|  |                          |     |     |     |      |      |      |      |      |
|--|--------------------------|-----|-----|-----|------|------|------|------|------|
| Caudal de aire                               | 7920 m³/h                |     |     |     |      |      |      |      |      |
| Pérdida de carga externa                     | 300 Pa                   |     |     |     |      |      |      |      |      |
| Presión interna del ventilador               | 3 Pa                     |     |     |     |      |      |      |      |      |
| Pérdida de carga interna                     | 494 Pa                   |     |     |     |      |      |      |      |      |
| Pérdida de carga dinámica                    | 21 Pa                    |     |     |     |      |      |      |      |      |
| Pérdida de carga total                       | 818 Pa                   |     |     |     |      |      |      |      |      |
| Tipo de ventilador                           | VME500-3,50/400EC-1950-Z |     |     |     |      |      |      |      |      |
| Número de revoluciones del ventilador        | 1739 1/min               |     |     |     |      |      |      |      |      |
| Número de revoluciones máximo del ventilador | 1950 1/min               |     |     |     |      |      |      |      |      |
| Rendimiento total                            | 71,6 %                   |     |     |     |      |      |      |      |      |
| Corriente del motor                          | 3,84 A                   |     |     |     |      |      |      |      |      |
| Corriente máxima del motor                   | 5,60 A                   |     |     |     |      |      |      |      |      |
| Máxima potencia del motor                    | 3,50 kW                  |     |     |     |      |      |      |      |      |
| Tensión del motor                            | 3~ 400V 50Hz             |     |     |     |      |      |      |      |      |
| Tensión de mando                             | 8,9 V                    |     |     |     |      |      |      |      |      |
| Valor K                                      | 280                      |     |     |     |      |      |      |      |      |
| <b>Potencia eléctrica activa Pm</b>          | <b>2,52 kW</b>           |     |     |     |      |      |      |      |      |
| Potencia consumida en las condiciones SFPv   | 2,11 kW                  |     |     |     |      |      |      |      |      |
| SFP (Potencia específica del ventilador)     | 0,96 kW/(m³/s)           |     |     |     |      |      |      |      |      |
|  | 0,267 W/(m³/h)           |     |     |     |      |      |      |      |      |
| Tipo   | 2139622                  |     |     |     |      |      |      |      |      |
| SFP según EN 16798-3                         | SFP2                     |     |     |     |      |      |      |      |      |
| Clase-P según EN 13053 Pm ref: 3,7 kW        | P1                       |     |     |     |      |      |      |      |      |
| Densidad del aire                            | 1,2 kg/m³                |     |     |     |      |      |      |      |      |
| Frecuencia de octava [Hz]                    | 63                       | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Suma |
| Lw(A) lado de aspiración                     | 39                       | 62  | 67  | 67  | 67   | 65   | 61   | 58   | 73   |
| Lw(A) lado de impulsión                      | 46                       | 69  | 70  | 76  | 77   | 76   | 73   | 66   | 82   |

Toma de presión conducida hasta el exterior del equipo

Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire, Sujeta puerta - palanca de cierre



**Ficha técnica**

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**(8) Silenciador tipo 11**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 36 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11

Colisas del silenciador extraíbles para profundidad de 230 mm

**(9) Filtro ISO ePM1 85%**

|   |              |
|---|--------------|
| EN ISO 16890  | ISO ePM1 85% |
| Pérdida de carga inicial (limpio)   | 130 Pa       |
| Pérdida de carga seleccionada   | 180 Pa       |
| Pérdida de carga final  | 230 Pa       |
| Energieverbrauch (Eurovent 4/21: -)   | 3081 kWh     |
| Superficie del filtro   | 16,18 m²     |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |              |
| Pérdida de carga  | 3 Pa         |

Filtro de bolsa F9 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire, Sujeta puerta - palanca de cierre

**Resumen de accesorios**

- 3 Alumbrado, 230V LED, montado y cableado
- 3 Mirilla
- 1 Puerta de acceso
- 3 Puerta de acceso
- 4 Sujeta puerta - palanca de cierre
- 1 Toma de presión conducida hasta el exterior del equipo

**Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)**

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|                                 |  |
|---------------------------------|--|
| Tipo de equipo                  | Unidad de ventilación unidireccional (UVU) |
| DeltaP Filtro                   | 87 Pa                                      |
| DeltaPs,int                     | 87 Pa                                      |
| DeltaPs, adicional              | 282 Pa                                     |
| Eficiencia recuperador/objetivo | -  |
| Ventilador Eficiencia/objetivo  | 69,45 / 47,72 %                            |
| Vent. eta opt. EU:327/2011      | (7) 75,2%                                  |
| Grado de eficiencia N           | (7) 80                                     |



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|  |                    |
|--|--------------------|
| Vent. eta stat. eingebaut  | (7) 69,5%          |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 125 / 230 W/(m³/s) |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 0,71 %             |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,44 %             |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



**Ficha técnica****CL06 URGENCIAS SERVICIOS AFECTADOS**

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Cliente

GOC

Proyecto / Referencia

CL06 URGENCIAS  
SERVICIOS AFECTADOS

LV-Pos./Adjunto

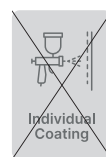
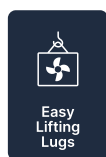
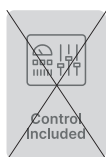
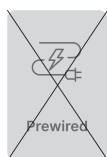
Su persona de contacto

Su referencia

Nuestro responsable del proyecto

**El equipo en un vistazo**

|  |   |
|--|---|
| Tipo del flujo de aire                     | Impulsión   |
| Tamaño (Imp/Ret)                           | AHUW TE EC 130  |
| Variante de equipo                         | TE EC   |
| Disposición                                | Horizontal simple                                       |
| Ubicación                                  | Instalación en el exterior (resistente a la intemperie) |
| Variante                                   | Estándar  |
| Tratamiento de la superficie de la carcasa | galvanizado   |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío                                  |
| Recuperación de calor                      | ninguna   |



|   | Impulsión   | Retorno   |
|---|---|-----------|
| Caudal de aire                                      | 7999 m³/h   | 2,22 m³/s |
| Presión / pérdida de carga externa                  | 300 Pa  |           |
| Velocidad del aire Etiqueta energética Eurovent     | 1,99 m/s  |           |
| Velocidad del aire (clase según DIN EN 13053)       | 2,0 m/s (V3)  |           |
| Dimensiones (Largo,Ancho,Altura)                    | 5491 x 1322 x 1017 mm   |           |
| Bancada   | no incluido   |           |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |           |
| Peso  | 989 kg  |           |
| Corriente máxima consumida de los ventiladores      | 5,6 A   |           |
| Potencia máxima conectada de los ventiladores       | 3,5 KW  |           |
| Potencia de calor necesaria (BAC)                   | 77,52 kW  |           |
| Potencia de frío necesaria (BAF)                    | 47,45 kW  |           |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: E   |           |
| Eficiencia energética RLT                           | A   |           |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |           |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.



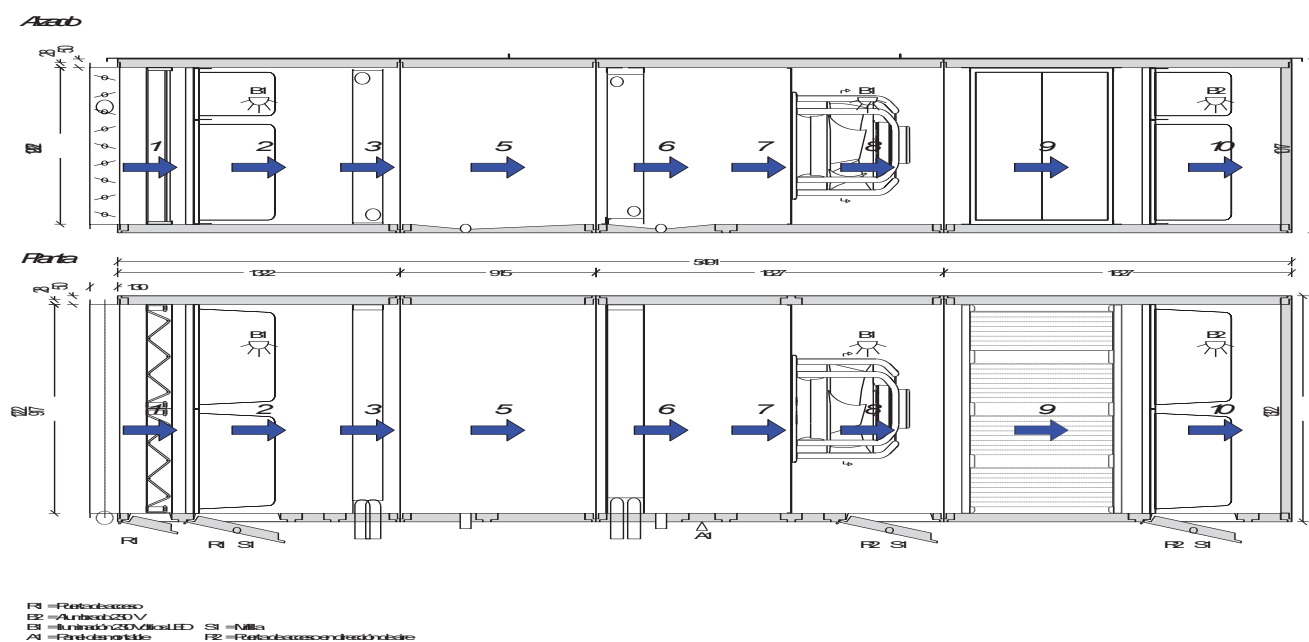
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**Datos técnicos****Impulsión****(1) Filter ISO Coarse 60%**

| EN ISO 16890   | ISO Coarse 60% |
|--|----------------|
| Pérdida de carga inicial (limpio)                                    | 25 Pa          |
| Pérdida de carga seleccionada  | 50 Pa          |
| Pérdida de carga final   | 75 Pa          |
| Energieverbrauch (Eurovent 4/21: -)                                  | - kWh          |
| Superficie del filtro  | 1,54 m²        |
| Compuerta de la clase 1 según la DIN EN 1751, Q exterior, 917 x 1222 |                |
| Pérdida de carga   | 3 Pa           |

Filtro sin marco G4

Filtro extraíble para filtro de manta, Riel para filtro de manta

Puerta de acceso, Türfeststeller-Einrasthebel

**(2) Filtro ISO ePM1 50%**

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 88 Pa        |
| Pérdida de carga seleccionada       | 138 Pa       |
| Pérdida de carga final              | 188 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 16,18 m²     |



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Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Sujeta puerta - palanca de cierre

**(3) Módulo de la batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 3 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/2 Pulgadas - 1 1/2 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 24 °C                           |
| Potencia (total)                      | 77,52 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 4,51 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 33 Pa                           |
| Pérdida de carga en el lado del medio | 9,7 kPa                         |
| Velocidad del aire                    | 2,44 m/s                        |
| Contenido de agua                     | 9,83 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

Lacado

**(5) módulo vacío con bandeja 915 para humectador 54,2 Kg/h**

Bandeja en acero inoxidable 1309 KGT salida de condensados a la izquierda

Salida de condensados: DN32, 1 1/4 Pulgadas

**(6) Módulo de batería de frío**

|   |                                 |
|---|---------------------------------|
| Tipo de batería                             | W/28/1047/4R/22K/3.0Cu,12/Al-L1 |
| Conexión (entrada/salida)                   | DN 40, 1 1/2" - DN 40, 1 1/2"   |
| Temperatura de aire de entrada              | 36,5 °C                         |
| Humedad relativa                            | 27,0 %                          |
| Temperatura de aire de salida               | 19,2 °C                         |
| Humedad relativa                            | 74,1 %                          |
| Potencia (sensible)                         | 47,45 kW                        |
| Potencia (total)                            | 47,45 kW                        |
| Pérdida de carga en el lado del aire (seco) | 61 Pa                           |
| Entrada del medio                           | 7 °C                            |
| Salida del medio                            | 12 °C                           |
| Cantidad de líquido                         | 8,16 m³/h                       |
| Pérdida de carga en el lado del medio       | 17,6 kPa                        |
| Velocidad del aire                          | 2,53 m/s                        |
| Contenido de agua                           | 15,4 l                          |
| Densidad del aire                           | 1,2 kg/m³                       |

Rieles de acero inoxidable V2A

Bandeja en acero inoxidable 1306 KGT



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Salida de condensados: DN32, 1 1/4 Pulgadas

**(7) Módulo vacío 305****(8) Ventilador, Giro libre con motor EC**

|  |                          |           |
|--|--------------------------|-----------|
| Caudal de aire                               | 7999                     | m³/h      |
| Pérdida de carga externa                     | 300                      | Pa        |
| Presión interna del ventilador               | 3                        | Pa        |
| Pérdida de carga interna                     | 504                      | Pa        |
| Pérdida de carga dinámica                    | 22                       | Pa        |
| Pérdida de carga total                       | 828                      | Pa        |
| Tipo de ventilador                           | VME500-3,50/400EC-1950-Z |           |
| Número de revoluciones del ventilador        | 1752                     | 1/min     |
| Número de revoluciones máximo del ventilador | 1950                     | 1/min     |
| Rendimiento total                            | 71,4                     | %         |
| Corriente del motor                          | 3,92                     | A         |
| Corriente máxima del motor                   | 5,60                     | A         |
| Máxima potencia del motor                    | 3,50                     | kW        |
| Tensión del motor                            | 3~ 400V 50Hz             |           |
| Tensión de mando                             | 9                        | V         |
| Valor K                                      | 280                      |           |
| Clase de eficiencia energética               | corresponde a IE5        |           |
| <b>Potencia eléctrica activa Pm</b>          | <b>2,57</b>              | <b>kW</b> |
| Potencia consumida en las condiciones SFPv   | 2,16                     | kW        |
| SFP (Potencia específica del ventilador)     | 0,97                     | kW/(m³/s) |
|  | 0,271                    | W/(m³/h)  |
| Tipo   | 2139622                  |           |
| SFP según EN 16798-3                         | SFP2                     |           |
| Clase-P según EN 13053 Pm ref: 3,78 kW       | P1                       |           |
| Densidad del aire                            | 1,2                      | kg/m³     |
| Frecuencia de octava [Hz]                    | 63                       | 125       |
| Lw(A) lado de aspiración                     | 39                       | 63        |
| Lw(A) lado de impulsión                      | 46                       | 69        |
|  | 250                      | 500       |
|  | 1000                     | 2000      |
|  | 4000                     | 8000      |
|  | Suma                     |           |
|  | 74                       | 83        |

Toma de presión conducida hasta el exterior del equipo

Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire, Türfeststeller-Einrasthebel



**Ficha técnica****CL06 URGENCIAS SERVICIOS AFECTADOS**

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**(9) Silenciador tipo 11**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 37 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11

Colisas del silenciador extraíbles para profundidad de 230 mm

**(10) Filtro ISO ePM1 85%**

|                                     |              |
|-------------------------------------|--------------|
| EN ISO 16890                        | ISO ePM1 85% |
| Pérdida de carga inicial (limpio)   | 132 Pa       |
| Pérdida de carga seleccionada       | 182 Pa       |
| Pérdida de carga final              | 232 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 3081 kWh     |
| Superficie del filtro               | 16,18 m²     |

Filtro de bolsa F9 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Alumbrado, LED resistente a la humedad de 230 V 9W, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire, Sujeta puerta - palanca de cierre

**Resumen de accesorios**

- 2 Alumbrado, 230V LED, montado y cableado
- 1 Alumbrado, LED resistente a la humedad de 230 V 9W, montado y cableado
- 3 Mirilla
- 1 Puerta de acceso
- 3 Puerta de acceso
- 2 Sujeta puerta - palanca de cierre
- 1 Toma de presión conducida hasta el exterior del equipo
- 2 Türfeststeller-Einrasthebel

**Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)**

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|                                 |  |
|---------------------------------|--|
| Tipo de equipo                  | Unidad de ventilación unidireccional (UVU) |
| DeltaP Filtro                   | 88 Pa                                      |
| DeltaPs,int                     | 88 Pa                                      |
| DeltaPs, adicional              | 290 Pa                                     |
| Eficiencia recuperador/objetivo | -  |
| Ventilador Eficiencia/objetivo  | 69,41 / 47,85 %                            |
| Vent. eta opt. EU:327/2011      | (8) 75,2%                                  |
| Grado de eficiencia N           | (8) 80                                     |
| Vent. eta stat. eingebaut       | (8) 69,5%                                  |



**Ficha técnica****CL06 URGENCIAS SERVICIOS AFECTADOS****Número de oferta**

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|  |                    |
|--|--------------------|
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 127 / 230 W/(m³/s) |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 0,73 %             |
| Máximo caudal de fuga externa a -400 Pa (RU)                       | 0,45 %             |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.

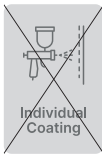
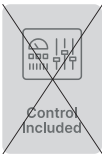


|                  |            |
|------------------|------------|
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|  |  |  |
|--|--|--|
| <div> <div>Cliente</div> <div>GOC</div> </div> | <div> <div>Proyecto / Referencia</div> <div>CL-0223 aire primario area quirofanos</div> </div> | <div> <div>LV-Pos./Adjunto</div> </div>                  |
| <div> <div>Su persona de contacto</div> </div> | <div> <div>Su referencia</div> </div>  | <div> <div>Nuestro responsable del proyecto</div> </div> |

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno  |
| Tamaño (Imp/Ret)                           | AHU TE EC 43   |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple  |
| Ubicación                                  | para interior  |
| Variante                                   | Estándar   |
| Tratamiento de la superficie de la carcasa | galvanizado  |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Deshumectar   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas  |



|   | Impulsión   | Retorno             |
|---|---|---------------------|
| Caudal de aire                                      | 2628 m³/h 0,73 m³/s   | 2497 m³/h 0,69 m³/s |
| Presión / pérdida de carga externa                  | 630 Pa  | 150 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,96 m/s  | 1,86 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 2,0 m/s (V3)  | 1,9 m/s (V3)        |
| Dimensiones (Largo,Ancho,Altura)                    | 6813 x 1017 x 1424 mm   |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 1141 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 4,6 A + Retorno: 1,6 A = 6,2 A   |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 2,95 KW + Retorno: 1,05 KW = 4 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 24,06 kW  |                     |
| Potencia de frío necesaria (BAF)                    | 24 kW   |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A   |                     |
| Eficiencia energética RLT                           | A   |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.



Ficha técnica

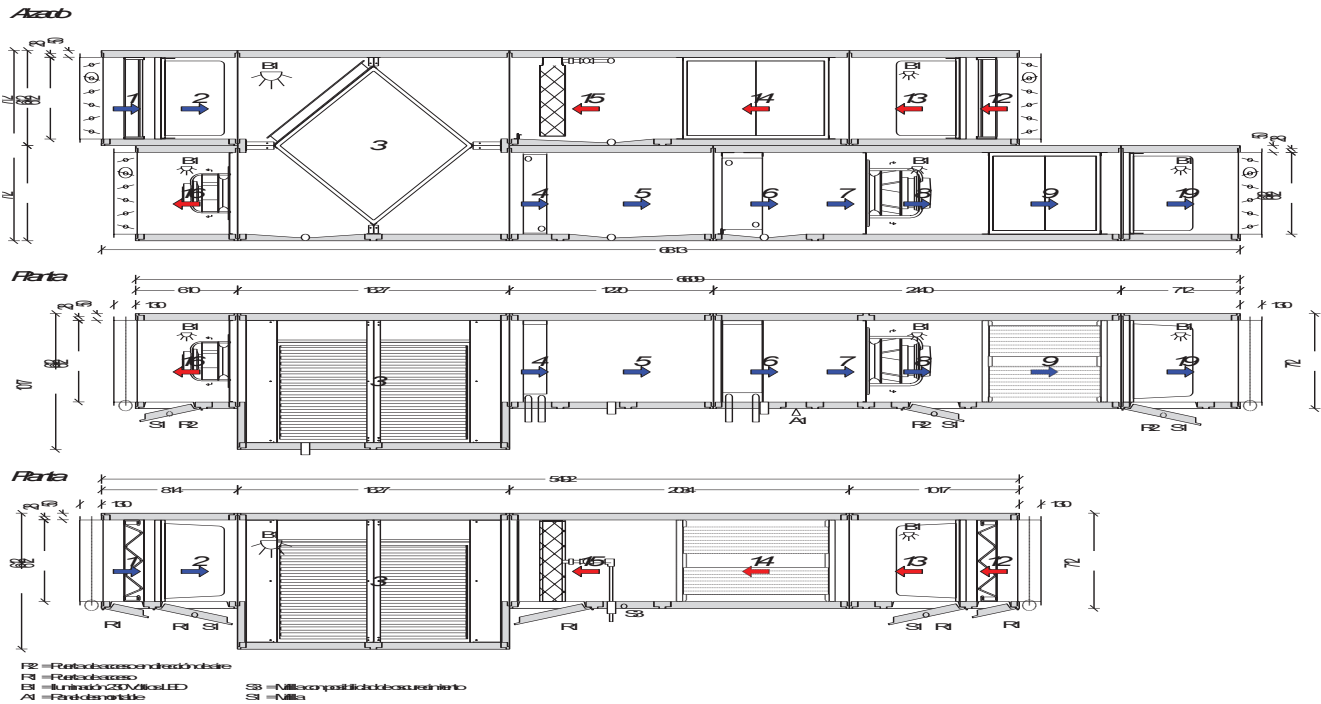
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Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890   | ISO Coarse 60% |
|--|----------------|
| Pérdida de carga inicial (limpio)  | 25 Pa          |
| Pérdida de carga seleccionada  | 50 Pa          |
| Pérdida de carga final   | 75 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 0,51 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 612 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 3 Pa           |

Acero inoxidable V2A suelo techo lateral  
 Filtro sin marco G4  
 Rieles para filtro de manta, Rieles de filtro de manta  
 Puerta de acceso

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 87 Pa        |
| Pérdida de carga seleccionada       | 137 Pa       |
| Pérdida de carga final              | 187 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 5,39 m²      |



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Acero inoxidable V2A suelo techo lateral

Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Puerta de acceso

**(3) Recuperador de calor de placas de alta eficacia, vertical****Precalentamiento del aire exterior (WRG)**

|   |          |
|---|----------|
| Temperatura exterior  | -4,9 °C  |
| Humedad relativa de aire exterior   | 90 %     |
| Temperatura del retorno   | 22,0 °C  |
| Humedad relativa del retorno  | 50,0 %   |
| Datos referidos a la temperatura del aire exterior  |          |
| Temperatura del aire exterior mínima  | -4,9 °C  |
| Temperatura de impulsión  | 17,4 °C  |
| Humedad relativa de impulsión   | 18 %     |
| Grado de transferencia de temperatura seca según EN 308                                   | 77 %     |
| Factor de recuperación de calor   | 83 %     |
| Potencia térmica  | 19,6 kW  |
| Condensado  | 7,7 kg/h |
| Temperatura de descarga   | 5,2 °C   |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 127 Pa   |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 116 Pa   |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 0,30 kW  |
| Coeficiente de rendimiento  | 44,60    |
| Eficiencia energética   | 75 %     |
| Clase de recuperador según EN 13053/2020  | H1       |
| Máx. porcentaje de fugas  | 0,25 %   |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 84,6 %   |
| <b>en modo de desescarche (ca. 3.5 °C FOL)</b>  |          |
| Temperatura de aire de impulsión  | 17,4 °C  |

**Preenfriamiento del aire exterior (WRG)**

|                                   |          |
|-----------------------------------|----------|
| Temperatura exterior              | 35,6 °C  |
| Humedad relativa de aire exterior | 27,0 %   |
| Temperatura del retorno           | 24,0 °C  |
| Humedad relativa del retorno      | 40,0 %   |
| Temperatura de impulsión          | 26,9 °C  |
| Humedad relativa de impulsión     | 45 %     |
| Factor de recuperación de calor   | 75 %     |
| Potencia térmica                  | 7,6 kW   |
| Condensado                        | 0,0 kg/h |
| Temperatura de descarga           | 33,2 °C  |



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Acero inoxidable V2A suelo techo lateral

No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

Intercambiador, Recuperador vertical, Paquete de placas AG AL 09 N 0750 C 1 AE SC

Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm

Bandeja 1008 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

Alumbrado, 230V LED, montado y cableado

**(4) Batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 3 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 0/0 Pulgadas - 1 0/0 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 22,4 °C                         |
| Potencia (total)                      | 24,06 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 1,4 m³/h                        |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 44 Pa                           |
| Pérdida de carga en el lado del medio | 4,56 kPa                        |
| Velocidad del aire                    | 2,89 m/s                        |
| Contenido de agua                     | 2,73 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

Acero inoxidable V2A suelo techo lateral

Lacado

**(5) módulo vacío con bandeja 915 para humectador 16,5 Kg/h**

Acero inoxidable V2A suelo techo lateral

Bandeja en acero inoxidable 0709 KGT salida de condensados a la izquierda

Salida de condensados: DN32, 1 1/4 Pulgadas

**(6) Batería de frío**

|   |                                 |
|---|---------------------------------|
| Tipo de batería                             | W/22/454/8R/18K/2.5Cu,9.5/Al-L1 |
| Conexión (entrada/salida)                   | DN 32, 1 1/4" - DN 32, 1 1/4"   |
| Temperatura de aire de entrada              | 36,5 °C                         |
| Humedad relativa                            | 27,0 %                          |
| Temperatura de aire de salida               | 13 °C                           |
| Humedad relativa                            | 96,8 %                          |
| Potencia (latente)                          | 2,79 kW                         |
| Potencia (sensible)                         | 21,21 kW                        |
| Potencia (total)                            | 24 kW                           |
| Pérdida de carga en el lado del aire (seco) | 206 Pa                          |
| Entrada del medio                           | 7 °C                            |
| Salida del medio                            | 12 °C                           |
| Cantidad de líquido                         | 4,12 m³/h                       |
| Pérdida de carga en el lado del medio       | 19,1 kPa                        |



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|                    |           |
|--------------------|-----------|
| Velocidad del aire | 2,92 m/s  |
| Contenido de agua  | 7,5 l     |
| Densidad del aire  | 1,2 kg/m³ |

Acero inoxidable V2A suelo techo lateral  
 Rieles de acero inoxidable V2A  
 Bandeja en acero inoxidable 0706 KGT  
 Salida de condensados: DN32, 1 1/4 Pulgadas

(7) Módulo vacío 305

Acero inoxidable V2A suelo techo lateral

(8) Ventilador, Giro libre con motor EC

|  |   |
|--|---|
| Caudal de aire                               | 2628 m³/h                               |
| Pérdida de carga externa                     | 630 Pa                                  |
| Presión interna del ventilador               | 8 Pa                                    |
| Pérdida de carga interna                     | 786 Pa                                  |
| Pérdida de carga dinámica                    | 30 Pa                                   |
| Pérdida de carga total                       | 1454 Pa                                 |
| Tipo de ventilador                           | VME310-2,95/400EC-4000                  |
| Número de revoluciones del ventilador        | 3417 1/min                              |
| Número de revoluciones máximo del ventilador | 4000 1/min                              |
| Rendimiento total                            | 57,8 %                                  |
| Corriente del motor                          | 2,85 A                                  |
| Corriente máxima del motor                   | 4,60 A                                  |
| Máxima potencia del motor                    | 2,95 kW                                 |
| Tensión del motor                            | 3*400 V                                 |
| Tensión de mando                             | 7,5 V                                   |
| Valor K                                      | 116                                     |
| Clase de eficiencia energética               | corresponde a IE5                       |
| <b>Potencia eléctrica activa Pm</b>          | <b>1,84 kW</b>                          |
| Potencia consumida en las condiciones SFPv   | 1,66 kW                                 |
| SFP (Potencia específica del ventilador)     | 2,27 kW/(m³/s)                          |
|  | 0,632 W/(m³/h)                          |
| Tipo   | 2138685                                 |
| SFP según EN 16798-3                         | SFP4                                    |
| Clase-P según EN 13053 Pm ref. 2,36 kW       | P1                                      |
| Densidad del aire                            | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]                    | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración                     | 49 62 83 80 76 78 75 70 86              |
| Lw(A) lado de impulsión                      | 51 62 84 81 84 84 83 76 90              |

Acero inoxidable V2A suelo techo lateral  
 Toma de presión conducida hasta el exterior del equipo  
 Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
 Mirilla  
 Alumbrado, 230V LED, montado y cableado  
 Puerta de acceso, Puerta de acceso en dirección de aire



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**(9) Silenciador tipo 11**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 36 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

Acero inoxidable V2A suelo techo lateral

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11

Colisas del silenciador extraíbles para profundidad de 230 mm

**(19) Filtro ISO ePM1 85%**

|  |                     |
|--|---------------------|
| EN ISO 16890   | ISO ePM1 85%        |
| Pérdida de carga inicial (limpio)  | 130 Pa              |
| Pérdida de carga seleccionada  | 180 Pa              |
| Pérdida de carga final   | 230 Pa              |
| Energieverbrauch (Eurovent 4/21: -)  | 3081 kWh            |
| Superficie del filtro  | 5,39 m <sup>2</sup> |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 612 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                     |
| Pérdida de carga   | 3 Pa                |

Acero inoxidable V2A suelo techo lateral

Filtro de bolsa F9 (energía optimizada)

Bastidor deslizante con palanca de sujeción, acero inoxidable, filtro extraíble

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire

**Retorno****(3) Recuperador de calor de placas de alta eficacia, vertical**

Datos técnicos: véase la sección de impulsión

**(12) Filtro ISO polvo grueso 60%**

|  |                     |
|--|---------------------|
| EN ISO 16890   | ISO Coarse 60%      |
| Pérdida de carga inicial (limpio)  | 24 Pa               |
| Pérdida de carga seleccionada  | 48 Pa               |
| Pérdida de carga final   | 72 Pa               |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh               |
| Superficie del filtro  | 0,51 m <sup>2</sup> |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 612 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                     |
| Pérdida de carga   | 2 Pa                |

Acero inoxidable V2A suelo techo lateral

Filtro sin marco G4

Rieles para filtro de manta, Rieles de filtro de manta



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Puerta de acceso

(13) Filtro ISO ePM1 50%

|                                     |              |
|-------------------------------------|--------------|
| EN ISO 16890                        | ISO ePM1 50% |
| Pérdida de carga inicial (limpio)   | 82 Pa        |
| Pérdida de carga seleccionada       | 132 Pa       |
| Pérdida de carga final              | 182 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 5,39 m²      |

Acero inoxidable V2A suelo techo lateral  
Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, acero inoxidable, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso

(14) Silenciador tipo 2

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 11 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Acero inoxidable V2A suelo techo lateral  
Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2  
Colisas del silenciador extraíbles para profundidad de 200 mm

(15) Humectador adiabático de agua perdida

|   |   |
|---|---|
| Medio   | HU-CEL  |
| Temperatura de entrada del aire                             | 26 °C   |
| Humedad relativa  | 40 %  |
| Temperatura de salida del aire                              | 17,9 °C   |
| Humedad relativa  | 91 %  |
| Velocidad del aire  | 2,7 m/s   |
| Capacidad de humectación                                    | 10,19 kg/h                                      |
| Pérdida de carga  | 60 Pa   |
| Cantidad de agua a intervalos para la humectación del medio | tres o cuatro veces la capacidad de humectación |
| Eficiencia del humectador                                   | 89 %  |
| Humidificación específica                                   | 3,4 g/kg  |

Acero inoxidable V2A suelo techo lateral  
Mirilla con posibilidad de oscurecimiento  
Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1  
Rieles del KBF en acero inoxidable V2A  
bandeja acero inoxidable 0709 KGT salida derecha  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Puerta de acceso



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(16) Ventilador, Giro libre con motor EC

|  |                           |                                      |
|--|---------------------------|--------------------------------------|
| Caudal de aire   | 2497                      | m³/h                                 |
| Pérdida de carga externa   | 150                       | Pa                                   |
| Presión interna del ventilador   | 6                         | Pa                                   |
| Pérdida de carga interna   | 371                       | Pa                                   |
| Pérdida de carga dinámica  | 54                        | Pa                                   |
| Pérdida de carga total   | 581                       | Pa                                   |
| Tipo de ventilador   | VME280-1,05/400EC-3400-mK |                                      |
| Número de revoluciones del ventilador  | 2836                      | 1/min                                |
| Número de revoluciones máximo del ventilador   | 3400                      | 1/min                                |
| Rendimiento total  | 63,6                      | %                                    |
| Corriente del motor  | 1,01                      | A                                    |
| Corriente máxima del motor   | 1,60                      | A                                    |
| Máxima potencia del motor  | 1,05                      | kW                                   |
| Tensión del motor  | 3*400                     | V                                    |
| Tensión de mando   | 7,29                      | V                                    |
| Valor K  | 77                        |                                      |
| Clase de eficiencia energética   | corresponde a IE5         |                                      |
| Potencia eléctrica activa Pm   | 0,63                      | kW                                   |
| Potencia consumida en las condiciones SFPv   | 0,56                      | kW                                   |
| SFP (Potencia específica del ventilador)   | 0,80                      | kW/(m³/s)                            |
|  | 0,223                     | W/(m³/h)                             |
| Tipo   | 2138495                   |                                      |
| SFP según EN 16798-3   | SFP0                      |                                      |
| Clase-P según EN 13053 Pm ref: 0,9 kW  | P1                        |                                      |
| Densidad del aire  | 1,2                       | kg/m³                                |
| Frecuencia de octava [Hz]  | 63                        | 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración   | 41                        | 51 64 67 68 67 68 68 75              |
| Lw(A) lado de impulsión  | 48                        | 55 71 75 78 77 73 69 83              |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 612 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                           |                                      |
| Pérdida de carga   | 2                         | Pa                                   |

Acero inoxidable V2A suelo techo lateral  
Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Resumen de accesorios

- Acero inoxidable V2A suelo techo lateral
- 5 Alumbrado, 230V LED, montado y cableado
- 5 Mirilla
- 1 Mirilla con posibilidad de oscurecimiento
- 1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de



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impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

- 2 Puerta de acceso
- 2 Puerta de acceso
- 4 Puerta de acceso
- 2 Toma de presión conducida hasta el exterior del equipo

Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|  |   |
|--|---|
| Tipo de equipo   | Unidad de ventilación bidireccional (UVB) |
| Sistema de recuperación  | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.  | 87 / 47 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.                                      | 127 / 116 Pa                              |
| DeltaPs,int  | 377 Pa                                    |
| DeltaPs, adicional   | 581 Pa                                    |
| Eficiencia recuperador/objetivo                                    | 77 / 73 %                                 |
| Vent. eta opt. EU:327/2011   | (8) 66,1% (16) 67,1%                      |
| Grado de eficiencia N  | (8) 71,7 / (16) 77,5                      |
| Vent. eta stat. eingebaut  | (8) 56,2% (16) 57%                        |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 666 / 1113 W/(m³/s)                       |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1 %                                       |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,62 %                                    |

Notas:

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014. Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva. Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo. El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética. Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.

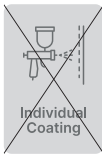
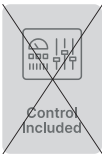


|                  |            |
|------------------|------------|
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|  |   |  |
|--|---|--|
| <div> <div>Cliente</div> <div>GOC</div> </div> | <div> <div>Proyecto / Referencia</div> <div>CL-02222 Almacen limpio quirofanos</div> </div> | <div> <div>LV-Pos./Adjunto</div> </div>                  |
| <div> <div>Su persona de contacto</div> </div> | <div> <div>Su referencia</div> </div>   | <div> <div>Nuestro responsable del proyecto</div> </div> |

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno  |
| Tamaño (Imp/Ret)                           | AHU TE EC 85   |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple  |
| Ubicación                                  | para interior  |
| Variante                                   | Estándar   |
| Tratamiento de la superficie de la carcasa | galvanizado  |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Deshumectar   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas  |

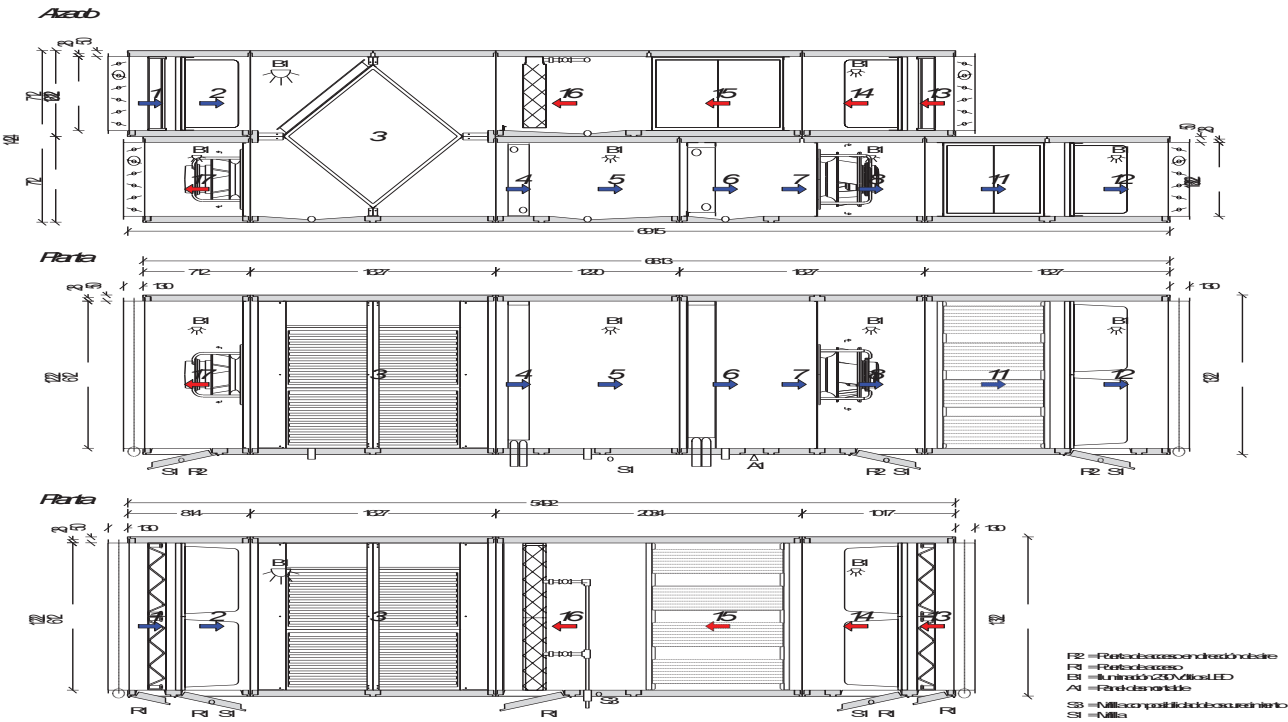


|   | Impulsión   | Retorno               |
|---|---|-----------------------|
| Caudal de aire                                      | 4756 m³/h   1,32 m³/s   | 4518 m³/h   1,26 m³/s |
| Presión / pérdida de carga externa                  | 630 Pa  | 150 Pa                |
| Velocidad del aire Etiqueta energética Eurovent     | 1,78 m/s  | 1,69 m/s              |
| Velocidad del aire (clase según DIN EN 13053)       | 1,8 m/s (V2)  | 1,7 m/s (V2)          |
| Dimensiones (Largo,Ancho,Altura)                    | 6915 x 1322 x 1424 mm   |                       |
| Bancada   | no incluido   |                       |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                       |
| Peso  | 1632 kg   |                       |
| Corriente máxima consumida de los ventiladores      | Impulsión: 5,5 A + Retorno: 2,8 A = 8,3 A   |                       |
| Potencia máxima conectada de los ventiladores       | Impulsión: 3,65 KW + Retorno: 1,8 KW = 5,45 KW  |                       |
| Potencia de calor necesaria (BAC)                   | 44,5 kW   |                       |
| Potencia de frío necesaria (BAF)                    | 43,43 kW  |                       |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: B   |                       |
| Eficiencia energética RLT                           | A+  |                       |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                       |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.





Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890  | ISO Coarse 60% |
|---|----------------|
| Pérdida de carga inicial (limpio)   | 22 Pa          |
| Pérdida de carga seleccionada   | 44 Pa          |
| Pérdida de carga final  | 66 Pa          |
| Energieverbrauch (Eurovent 4/21: -)   | - kWh          |
| Superficie del filtro   | 1,02 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga  | 2 Pa           |

Acero inoxidable V2A suelo techo lateral  
Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 78 Pa        |
| Pérdida de carga seleccionada       | 128 Pa       |
| Pérdida de carga final              | 178 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 10,78 m²     |



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Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Puerta de acceso

**(3) Recuperador de calor de placas de alta eficacia, vertical****Precalentamiento del aire exterior (WRG)**

|   |           |
|---|-----------|
| Temperatura exterior  | -4,9 °C   |
| Humedad relativa de aire exterior   | 90 %      |
| Temperatura del retorno   | 22,0 °C   |
| Humedad relativa del retorno  | 50,0 %    |
| Datos referidos a la temperatura del aire exterior  |           |
| Temperatura del aire exterior mínima  | -4,9 °C   |
| Temperatura de impulsión  | 16,2 °C   |
| Humedad relativa de impulsión   | 20 %      |
| Grado de transferencia de temperatura seca según EN 308                                   | 73 %      |
| Factor de recuperación de calor   | 78 %      |
| Potencia térmica  | 33,6 kW   |
| Condensado  | 13,0 kg/h |
| Temperatura de descarga   | 6,1 °C    |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 188 Pa    |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 172 Pa    |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 0,80 kW   |
| Coeficiente de rendimiento  | 28,60     |
| Eficiencia energética   | 70 %      |
| Clase de recuperador según EN 13053/2020  | H2        |
| Máx. porcentaje de fugas  | 0,25 %    |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 81 %      |

**en modo de desescarche (ca. 3.5 °C FOL)**

|  |          |
|--|----------|
| Temperatura de aire de impulsión               | 16,2 °C  |
| <b>Preenfriamiento del aire exterior (WRG)</b> |          |
| Temperatura exterior                           | 35,6 °C  |
| Humedad relativa de aire exterior              | 27,0 %   |
| Temperatura del retorno                        | 24,0 °C  |
| Humedad relativa del retorno                   | 40,0 %   |
| Temperatura de impulsión                       | 27,3 °C  |
| Humedad relativa de impulsión                  | 43 %     |
| Factor de recuperación de calor                | 71 %     |
| Potencia térmica                               | 13,2 kW  |
| Condensado                                     | 0,0 kg/h |
| Temperatura de descarga                        | 32,7 °C  |



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No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

Intercambiador, Recuperador vertical, Paquete de placas FG AL 09 N 1000 R 1 AE SC

Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm

Bandeja 1308 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

Alumbrado, 230V LED, montado y cableado

**(4) Batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 3 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/4 Pulgadas - 1 1/4 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 23 °C                           |
| Potencia (total)                      | 44,5 kW                         |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 2,59 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 40 Pa                           |
| Pérdida de carga en el lado del medio | 4,4 kPa                         |
| Velocidad del aire                    | 2,22 m/s                        |
| Contenido de agua                     | 6,42 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

Acero inoxidable V2A suelo techo lateral

Lacado

**(5) módulo vacío con bandeja 915 para humectador 30 Kg/h**

Acero inoxidable V2A suelo techo lateral

Bandeja en acero inoxidable 1309 KGT salida de condensados a la izquierda

Salida de condensados: DN32, 1 1/4 Pulgadas

Mirilla

Alumbrado, 230V LED, montado y cableado

**(6) Batería de frío**

|   |                                  |
|---|----------------------------------|
| Tipo de batería                             | W/22/1057/6R/27K/2.5Cu,9.5/Al-L1 |
| Conexión (entrada/salida)                   | DN 40, 1 1/2" - DN 40, 1 1/2"    |
| Temperatura de aire de entrada              | 36,5 °C                          |
| Humedad relativa                            | 27,0 %                           |
| Temperatura de aire de salida               | 13 °C                            |
| Humedad relativa                            | 96,8 %                           |
| Potencia (latente)                          | 5,04 kW                          |
| Potencia (sensible)                         | 38,39 kW                         |
| Potencia (total)                            | 43,43 kW                         |
| Pérdida de carga en el lado del aire (seco) | 96 Pa                            |
| Entrada del medio                           | 7 °C                             |
| Salida del medio                            | 12 °C                            |



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|                                       |           |
|---------------------------------------|-----------|
| Cantidad de líquido                   | 7,47 m³/h |
| Pérdida de carga en el lado del medio | 20,7 kPa  |
| Velocidad del aire                    | 2,27 m/s  |
| Contenido de agua                     | 11,4 l    |
| Densidad del aire                     | 1,2 kg/m³ |

Acero inoxidable V2A suelo techo lateral

Cónexión de vaciado y purga de aire, T-Cantidad 1 1/2 "

Rieles de acero inoxidable V2A

Bandeja en acero inoxidable 1306 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

**(7) Módulo vacío 305**

Acero inoxidable V2A suelo techo lateral

**(8) Ventilador, Giro libre con motor EC**

|  |   |
|--|---|
| Caudal de aire                               | 4756 m³/h                               |
| Pérdida de carga externa                     | 630 Pa                                  |
| Presión interna del ventilador               | 3 Pa                                    |
| Pérdida de carga interna                     | 697 Pa                                  |
| Pérdida de carga dinámica                    | 35 Pa                                   |
| Pérdida de carga total                       | 1365 Pa                                 |
| Tipo de ventilador                           | VMF400-3,65/400EC-2800                  |
| Número de revoluciones del ventilador        | 2569 1/min                              |
| Número de revoluciones máximo del ventilador | 2800 1/min                              |
| Rendimiento total                            | 63,0 %                                  |
| Corriente del motor                          | 4,39 A                                  |
| Corriente máxima del motor                   | 5,50 A                                  |
| Máxima potencia del motor                    | 3,65 kW                                 |
| Tensión del motor                            | 3*400 V                                 |
| Tensión de mando                             | 7,71 V                                  |
| Valor K                                      | 188                                     |
| Clase de eficiencia energética               | corresponde a IE5                       |
| <b>Potencia eléctrica activa Pm</b>          | <b>2,86 kW</b>                          |
| Potencia consumida en las condiciones SFPv   | 2,57 kW                                 |
| SFP (Potencia específica del ventilador)     | 1,95 kW/(m³/s)                          |
|  | 0,541 W/(m³/h)                          |
| Tipo   | 2139790                                 |
| SFP según EN 16798-3                         | SFP4                                    |
| Clase-P según EN 13053 Pm ref: 3,75 kW       | P1                                      |
| Densidad del aire                            | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]                    | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración                     | 53 69 81 79 76 76 73 69 85              |
| Lw(A) lado de impulsión                      | 56 69 83 82 84 87 81 75 91              |

Acero inoxidable V2A suelo techo lateral

Toma de presión conducida hasta el exterior del equipo

Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5



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Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

(11) Silenciador tipo 11

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 29 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

Acero inoxidable V2A suelo techo lateral  
tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11  
Colisas del silenciador extraíbles para profundidad de 230 mm

(12) Filtro ISO ePM1 85%

|   |              |
|---|--------------|
| EN ISO 16890  | ISO ePM1 85% |
| Pérdida de carga inicial (limpio)   | 118 Pa       |
| Pérdida de carga seleccionada   | 168 Pa       |
| Pérdida de carga final  | 218 Pa       |
| Energieverbrauch (Eurovent 4/21: -)   | 3081 kWh     |
| Superficie del filtro   | 10,78 m²     |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |              |
| Pérdida de carga  | 2 Pa         |

Acero inoxidable V2A suelo techo lateral  
Filtro de bolsa F9 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, acero inoxidable, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Retorno

(3) Recuperador de calor de placas de alta eficacia, vertical

Datos técnicos: véase la sección de impulsión

(13) Filtro ISO polvo grueso 60%

|   |                |
|---|----------------|
| EN ISO 16890  | ISO Coarse 60% |
| Pérdida de carga inicial (limpio)   | 21 Pa          |
| Pérdida de carga seleccionada   | 42 Pa          |
| Pérdida de carga final  | 63 Pa          |
| Energieverbrauch (Eurovent 4/21: -)   | - kWh          |
| Superficie del filtro   | 1,02 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga  | 2 Pa           |



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Acero inoxidable V2A suelo techo lateral

Filtro sin marco G4

Rieles para filtro de manta, Rieles de filtro de manta

Puerta de acceso

**(14) Filtro ISO ePM1 50%**

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 74 Pa        |
| Pérdida de carga seleccionada       | 124 Pa       |
| Pérdida de carga final              | 174 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 10,78 m²     |

Acero inoxidable V2A suelo techo lateral

Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, acero inoxidable, filtro extraíble

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso

**(15) Silenciador tipo 2**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 9 Pa    |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Acero inoxidable V2A suelo techo lateral

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2

Colisas del silenciador extraíbles para profundidad de 200 mm

**(16) Humectador adiabático de agua perdida**

|   |   |
|---|---|
| Medio   | HU-CEL  |
| Temperatura de entrada del aire                             | 26 °C   |
| Humedad relativa  | 40 %  |
| Temperatura de salida del aire                              | 17,8 °C   |
| Humedad relativa  | 91 %  |
| Velocidad del aire  | 2,5 m/s   |
| Capacidad de humectación                                    | 18,43 kg/h                                      |
| Pérdida de carga  | 50 Pa   |
| Cantidad de agua a intervalos para la humectación del medio | tres o cuatro veces la capacidad de humectación |
| Eficiencia del humectador                                   | 90 %  |
| Humidificación específica                                   | 3,4 g/kg  |

Acero inoxidable V2A suelo techo lateral

Mirilla con posibilidad de oscurecimiento

Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1

Rieles del KBF en acero inoxidable V2A



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bandeja acero inoxidable 1309 KGT salida derecha  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Puerta de acceso

(17) Ventilador, Giro libre con motor EC

|   |   |
|---|---|
| Caudal de aire  | 4518 m³/h                               |
| Pérdida de carga externa  | 150 Pa                                  |
| Presión interna del ventilador  | 9 Pa                                    |
| Pérdida de carga interna  | 401 Pa                                  |
| Pérdida de carga dinámica   | 89 Pa                                   |
| Pérdida de carga total  | 649 Pa                                  |
| Tipo de ventilador  | VME310-1,80/400EC-3410                  |
| Número de revoluciones del ventilador   | 3195 1/min                              |
| Número de revoluciones máximo del ventilador  | 3410 1/min                              |
| Rendimiento total   | 61,1 %                                  |
| Corriente del motor   | 2,10 A                                  |
| Corriente máxima del motor  | 2,80 A                                  |
| Máxima potencia del motor   | 1,80 kW                                 |
| Tensión del motor   | 3*400 V                                 |
| Tensión de mando  | 8,39 V                                  |
| Valor K   | 116                                     |
| Clase de eficiencia energética  | corresponde a IE5                       |
| Potencia eléctrica activa Pm  | 1,33 kW                                 |
| Potencia consumida en las condiciones SFPv  | 1,21 kW                                 |
| SFP (Potencia específica del ventilador)  | 0,97 kW/(m³/s)                          |
|   | 0,268 W/(m³/h)                          |
| Tipo  | 2138497                                 |
| SFP según EN 16798-3  | SFP1                                    |
| Clase-P según EN 13053 Pm ref: 1,59 kW  | P1                                      |
| Densidad del aire   | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]   | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración  | 37 52 69 74 72 75 79 79 84              |
| Lw(A) lado de impulsión   | 40 54 69 75 80 81 84 81 88              |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |   |
| Pérdida de carga  | 2 Pa                                    |

Acero inoxidable V2A suelo techo lateral  
Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Resumen de accesorios

- Acero inoxidable V2A suelo techo lateral
- 6 Alumbrado, 230V LED, montado y cableado



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- 6 Mirilla
- 1 Mirilla con posibilidad de oscurecimiento
- 1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.
- 2 Puerta de acceso
- 6 Puerta de acceso
- 2 Toma de presión conducida hasta el exterior del equipo

## Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

| Tipo de equipo   | Unidad de ventilación bidireccional (UVB) |
|--|---|
| Sistema de recuperación  | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.  | 78 / 43 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.                                      | 188 / 172 Pa                              |
| DeltaPs,int  | 481 Pa                                    |
| DeltaPs, adicional   | 424 Pa                                    |
| Eficiencia recuperador/objetivo                                    | 73 / 73 %                                 |
| Vent. eta opt. EU:327/2011   | (8) 69,1% (17) 67,4%                      |
| Grado de eficiencia N  | (8) 73,7 / (17) 75,4                      |
| Vent. eta stat. eingebaut  | (8) 61,3% (17) 51,9%                      |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 848 / 907 W/(m³/s)                        |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1,06 %                                    |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,66 %                                    |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



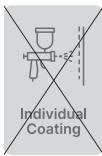
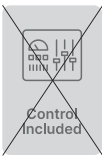
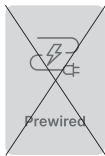
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|                        |                             |                                  |
|------------------------|-----------------------------|----------------------------------|
| Cliente                | Proyecto / Referencia       | LV-Pos./Adjunto                  |
| GOC                    | CL-02221 Pasillo Quirofanos |                                  |
| Su persona de contacto | Su referencia               | Nuestro responsable del proyecto |

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno  |
| Tamaño (Imp/Ret)                           | AHU TE EC 170  |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple  |
| Ubicación                                  | para interior  |
| Variante                                   | Estándar   |
| Tratamiento de la superficie de la carcasa | galvanizado  |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Deshumectar   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas  |



|   |   |                     |
|---|---|---------------------|
|   | Impulsión   | Retorno             |
| Caudal de aire                                      | 9976 m³/h 2,77 m³/s   | 9477 m³/h 2,63 m³/s |
| Presión / pérdida de carga externa                  | 600 Pa  | 175 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,86 m/s  | 1,77 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,9 m/s (V3)  | 1,8 m/s (V2)        |
| Dimensiones (Largo,Ancho,Altura)                    | 8236 x 1322 x 2644 mm   |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 2740 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 15,2 A + Retorno: 6,8 A = 22 A   |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 9,78 KW + Retorno: 4,45 KW = 14,23 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 93,33 kW  |                     |
| Potencia de frío necesaria (BAF)                    | 89,26 kW  |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: B   |                     |
| Eficiencia energética RLT                           | A   |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.





Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890  | ISO Coarse 60% |
|---|----------------|
| Pérdida de carga inicial (limpio)   | 23 Pa          |
| Pérdida de carga seleccionada   | 46 Pa          |
| Pérdida de carga final  | 69 Pa          |
| Energieverbrauch (Eurovent 4/21: -)   | - kWh          |
| Superficie del filtro   | 2,07 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 1222 x 1222 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga  | 2 Pa           |

Acero inoxidable V2A suelo techo lateral  
Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 82 Pa        |
| Pérdida de carga seleccionada       | 132 Pa       |
| Pérdida de carga final              | 182 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 21,56 m²     |



Acero inoxidable V2A suelo techo lateral  
Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Puerta de acceso

(3) Parte inferior del recuperador KGXD

|   |           |
|---|-----------|
| Precalentamiento del aire exterior (WRG)  |           |
| Temperatura exterior  | -4,9 °C   |
| Humedad relativa de aire exterior   | 90 %      |
| Temperatura del retorno   | 22,0 °C   |
| Humedad relativa del retorno  | 50,0 %    |
| Datos referidos a la temperatura del aire exterior  |           |
| Temperatura del aire exterior mínima  | -5,0 °C   |
| Temperatura de impulsión  | 16,5 °C   |
| Humedad relativa de impulsión   | 19 %      |
| Grado de transferencia de temperatura seca según EN 308                                   | 73 %      |
| Factor de recuperación de calor   | 80 %      |
| Potencia térmica  | 71,9 kW   |
| Condensado  | 29,0 kg/h |
| Temperatura de descarga   | 5,8 °C    |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 159 Pa    |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 145 Pa    |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 1,40 kW   |
| Coeficiente de rendimiento  | 34,50     |
| Eficiencia energética   | 70 %      |
| Clase de recuperador según EN 13053/2020  | H2        |
| Máx. porcentaje de fugas  | 0,25 %    |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 80,5 %    |

|   |          |
|---|----------|
| Preenfriamiento del aire exterior (WRG) |          |
| Temperatura exterior                    | 35,6 °C  |
| Humedad relativa de aire exterior       | 27,0 %   |
| Temperatura del retorno                 | 24,0 °C  |
| Humedad relativa del retorno            | 40,0 %   |
| Temperatura de impulsión                | 27,4 °C  |
| Humedad relativa de impulsión           | 43 %     |
| Factor de recuperación de calor         | 71 %     |
| Potencia térmica                        | 27,9 kW  |
| Condensado                              | 0,0 kg/h |
| Temperatura de descarga                 | 32,6 °C  |

Acero inoxidable V2A suelo techo lateral  
No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión,



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por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

Intercambiador, KGXD con bypass, Paquete de placas SV-170/R/1020"

Bandeja 1306 KGT

2 x Salida de condensados: DN32, 1 1/4 Pulgadas

Bandeja de condensado, Bandeja con salida de condensados, Bandeja 1307 con salida derecha

**(4) Batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 2 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/2 Pulgadas - 1 1/2 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 23 °C                           |
| Potencia (total)                      | 93,33 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 5,43 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 21 Pa                           |
| Pérdida de carga en el lado del medio | 11,06 kPa                       |
| Velocidad del aire                    | 2,27 m/s                        |
| Contenido de agua                     | 8,8 l                           |
| Densidad del aire                     | 1,2 kg/m³                       |

Acero inoxidable V2A suelo techo lateral

Lacado

**(5) módulo vacío con bandeja 915 para humectador 61,3 Kg/h**

Acero inoxidable V2A suelo techo lateral

Bandeja en acero inoxidable 1309 KGT salida de condensados a la izquierda

Salida de condensados: DN32, 1 1/4 Pulgadas

Mirilla

Alumbrado, 230V LED, montado y cableado

**(6) Batería de frío**

|   |                                 |
|---|---------------------------------|
| Tipo de batería                             | W/38/1013/6R/40K/2.5Cu,12/Al-L1 |
| Conexión (entrada/salida)                   | DN 65, 2 1/2" - DN 65, 2 1/2"   |
| Temperatura de aire de entrada              | 36,5 °C                         |
| Humedad relativa                            | 27,0 %                          |
| Temperatura de aire de salida               | 13,3 °C                         |
| Humedad relativa                            | 95,9 %                          |
| Potencia (latente)                          | 9,78 kW                         |
| Potencia (sensible)                         | 79,48 kW                        |
| Potencia (total)                            | 89,26 kW                        |
| Pérdida de carga en el lado del aire (seco) | 94 Pa                           |
| Entrada del medio                           | 7 °C                            |
| Salida del medio                            | 12 °C                           |
| Cantidad de líquido                         | 15,34 m³/h                      |
| Pérdida de carga en el lado del medio       | 18,3 kPa                        |
| Velocidad del aire                          | 2,4 m/s                         |



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|                   |           |
|-------------------|-----------|
| Contenido de agua | 36,3 l    |
| Densidad del aire | 1,2 kg/m³ |

Acero inoxidable V2A suelo techo lateral  
Cónexión de vaciado y purga de aire, T-Cantidad 2 1/2 "  
Rieles de acero inoxidable V2A  
Bandeja en acero inoxidable 1306 KGT  
Salida de condensados: DN32, 1 1/4 Pulgadas

(7) Módulo vacío 305

Acero inoxidable V2A suelo techo lateral

(8) Ventilador, Giro libre con motor EC

|  |   |
|--|---|
| Caudal de aire                               | 9976 m³/h                               |
| Pérdida de carga externa                     | 600 Pa                                  |
| Presión interna del ventilador               | 9 Pa                                    |
| Pérdida de carga interna                     | 661 Pa                                  |
| Pérdida de carga dinámica                    | 28 Pa                                   |
| Pérdida de carga total                       | 1298 Pa                                 |
| Tipo de ventilador                           | VME630-9,78/400EC-1950                  |
| Número de revoluciones del ventilador        | 1637 1/min                              |
| Número de revoluciones máximo del ventilador | 1950 1/min                              |
| Rendimiento total                            | 61,3 %                                  |
| Corriente del motor                          | 9,57 A                                  |
| Corriente máxima del motor                   | 15,20 A                                 |
| Máxima potencia del motor                    | 9,78 kW                                 |
| Tensión del motor                            | 3*400 V                                 |
| Tensión de mando                             | 8,03 V                                  |
| Valor K                                      | 438                                     |
| Clase de eficiencia energética               | corresponde a IE5                       |
| Potencia eléctrica activa Pm                 | 5,87 kW                                 |
| Potencia consumida en las condiciones SFPv   | 5,29 kW                                 |
| SFP (Potencia específica del ventilador)     | 1,91 kW/(m³/s)                          |
|  | 0,531 W/(m³/h)                          |
| Tipo   | 2138732                                 |
| SFP según EN 16798-3                         | SFP4                                    |
| Clase-P según EN 13053 Pm ref: 7,02 kW       | P1                                      |
| Densidad del aire                            | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]                    | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración                     | 54 84 77 76 81 81 76 69 88              |
| Lw(A) lado de impulsión                      | 54 78 76 85 91 86 82 72 93              |

Acero inoxidable V2A suelo techo lateral  
Toma de presión conducida hasta el exterior del equipo  
Interruptor de mantenimiento montado y cableado, AR 6/18,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire





(11) Silenciador tipo 11

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 32 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

Acero inoxidable V2A suelo techo lateral  
tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11  
Colisas del silenciador extraíbles para profundidad de 230 mm

(12) Filtro ISO ePM1 85%

|   |              |
|---|--------------|
| EN ISO 16890  | ISO ePM1 85% |
| Pérdida de carga inicial (limpio)   | 123 Pa       |
| Pérdida de carga seleccionada   | 173 Pa       |
| Pérdida de carga final  | 223 Pa       |
| Energieverbrauch (Eurovent 4/21: -)   | 3081 kWh     |
| Superficie del filtro   | 21,56 m²     |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 1222 x 1222 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |              |
| Pérdida de carga  | 2 Pa         |

Acero inoxidable V2A suelo techo lateral  
Filtro de bolsa F9 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, acero inoxidable, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

(21) Parte superior del recuperador KGXD

Acero inoxidable V2A suelo techo lateral  
Intercambiador, KGXD con bypass, Paquete de placas  
Compuerta de by-pass estancia clase 2 según DIN EN 1751 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm  
Alumbrado, 230V LED, montado y cableado  
Módulo de recuperador partido (paquete de placas suelto). Montaje por parte del instalador.



Retorno

(3) Parte inferior del recuperador KGXD

Datos técnicos: véase la sección de impulsión

(21) Parte superior del recuperador KGXD

Datos técnicos: véase la sección de impulsión

(13) Filtro ISO polvo grueso 60%

| EN ISO 16890  | ISO Coarse 60% |
|---|----------------|
| Pérdida de carga inicial (limpio)   | 22 Pa          |
| Pérdida de carga seleccionada   | 44 Pa          |
| Pérdida de carga final  | 66 Pa          |
| Energieverbrauch (Eurovent 4/21: -)   | - kWh          |
| Superficie del filtro   | 2,07 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 1222 x 1222 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga  | 2 Pa           |

Acero inoxidable V2A suelo techo lateral  
Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso

(14) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 78 Pa        |
| Pérdida de carga seleccionada       | 128 Pa       |
| Pérdida de carga final              | 178 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 21,56 m²     |

Acero inoxidable V2A suelo techo lateral  
Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso



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**(15) Silenciador tipo 2**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 10 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Acero inoxidable V2A suelo techo lateral

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2

Colisas del silenciador extraíbles para profundidad de 200 mm

**(16) Humectador adiabático de agua perdida**

|   |             |
|---|-------------|
| Medio   | CelPad 0790 |
| Temperatura de entrada del aire   | 26 °C       |
| Humedad relativa  | 40 %        |
| Temperatura de salida del aire  | 18,4 °C     |
| Humedad relativa  | 86 %        |
| Velocidad del aire  | 2,2 m/s     |
| Capacidad de humectación  | 36,39 kg/h  |
| Pérdida de carga  | 60 Pa       |
| Cantidad de agua a intervalos para la humectación del medio tres o cuatro veces la capacidad de humectación |             |
| Eficiencia del humectador   | 83 %        |
| Humidificación específica   | 3,2 g/kg    |

Acero inoxidable V2A suelo techo lateral

Mirilla con posibilidad de oscurecimiento

Medio de humectación, Panel de celulosa (CEL-PAD), Modelo 11

Rieles del KBF en acero inoxidable V2A

bandeja acero inoxidable 1309 KGT salida derecha

Salida de condensados: DN32, 1 1/4 Pulgadas

Puerta de acceso

**(17) Ventilador, Giro libre con motor EC**

|  |                        |
|--|------------------------|
| Caudal de aire                               | 9477 m³/h              |
| Pérdida de carga externa                     | 175 Pa                 |
| Presión interna del ventilador               | 9 Pa                   |
| Pérdida de carga interna                     | 391 Pa                 |
| Pérdida de carga dinámica                    | 87 Pa                  |
| Pérdida de carga total                       | 662 Pa                 |
| Tipo de ventilador                           | VMF450-4,45/400EC-2480 |
| Número de revoluciones del ventilador        | 2099 1/min             |
| Número de revoluciones máximo del ventilador | 2480 1/min             |
| Rendimiento total                            | 64,8 %                 |
| Corriente del motor                          | 4,15 A                 |
| Corriente máxima del motor                   | 6,80 A                 |
| Máxima potencia del motor                    | 4,45 kW                |
| Tensión del motor                            | 3*400 V                |



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|   |   |
|---|---|
| Tensión de mando  | 7,37 V                                  |
| Valor K   | 240                                     |
| Clase de eficiencia energética  | corresponde a IE5                       |
| <b>Potencia eléctrica activa Pm</b>   | <b>2,69 kW</b>                          |
| Potencia consumida en las condiciones SFPv  | 2,45 kW                                 |
| SFP (Potencia específica del ventilador)  | 0,93 kW/(m³/s)                          |
|   | 0,258 W/(m³/h)                          |
| Tipo  | 2139792                                 |
| SFP según EN 16798-3  | SFP1                                    |
| Clase-P según EN 13053 Pm ref: 3,19 kW  | P1                                      |
| Densidad del aire   | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]   | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración  | 46 64 73 77 76 77 80 79 85              |
| Lw(A) lado de impulsión   | 49 65 72 80 84 85 82 79 89              |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 1222 x 1222 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |   |
| Pérdida de carga  | 2 Pa                                    |

Acero inoxidable V2A suelo techo lateral

Toma de presión conducida hasta el exterior del equipo

Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire

**Resumen de accesorios**

Acero inoxidable V2A suelo techo lateral

6 Alumbrado, 230V LED, montado y cableado

6 Mirilla

1 Mirilla con posibilidad de oscurecimiento

1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

2 Puerta de acceso

1 Puerta de acceso

5 Puerta de acceso

2 Toma de presión conducida hasta el exterior del equipo

**Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)**

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|                                 |   |
|---------------------------------|---|
| Tipo de equipo                  | Unidad de ventilación bidireccional (UVB) |
| Sistema de recuperación         | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.       | 82 / 45 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.   | 159 / 145 Pa                              |
| DeltaPs,int                     | 431 Pa                                    |
| DeltaPs, adicional              | 426 Pa                                    |
| Eficiencia recuperador/objetivo | 73 / 73 %                                 |



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|  |                      |
|--|----------------------|
| Vent. eta opt. EU:327/2011   | (8) 67,2% (17) 69,3% |
| Grado de eficiencia N  | (8) 67,4 / (17) 73   |
| Vent. eta stat. eingebaut  | (8) 59,5% (17) 55,4% |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 748 / 800 W/(m³/s)   |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1,06 %               |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,66 %               |

Notas:

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014. Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva. Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo. El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética. Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



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Cliente  
GOC

Proyecto / Referencia  
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LV-Pos./Adjunto

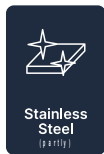
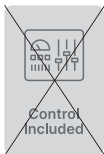
Su persona de contacto

Su referencia

Nuestro responsable del proyecto

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno  |
| Tamaño (Imp/Ret)                           | AHU TE EC 96   |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple  |
| Ubicación                                  | para interior  |
| Variante                                   | Estándar   |
| Tratamiento de la superficie de la carcasa | galvanizado  |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Deshumectar   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas  |

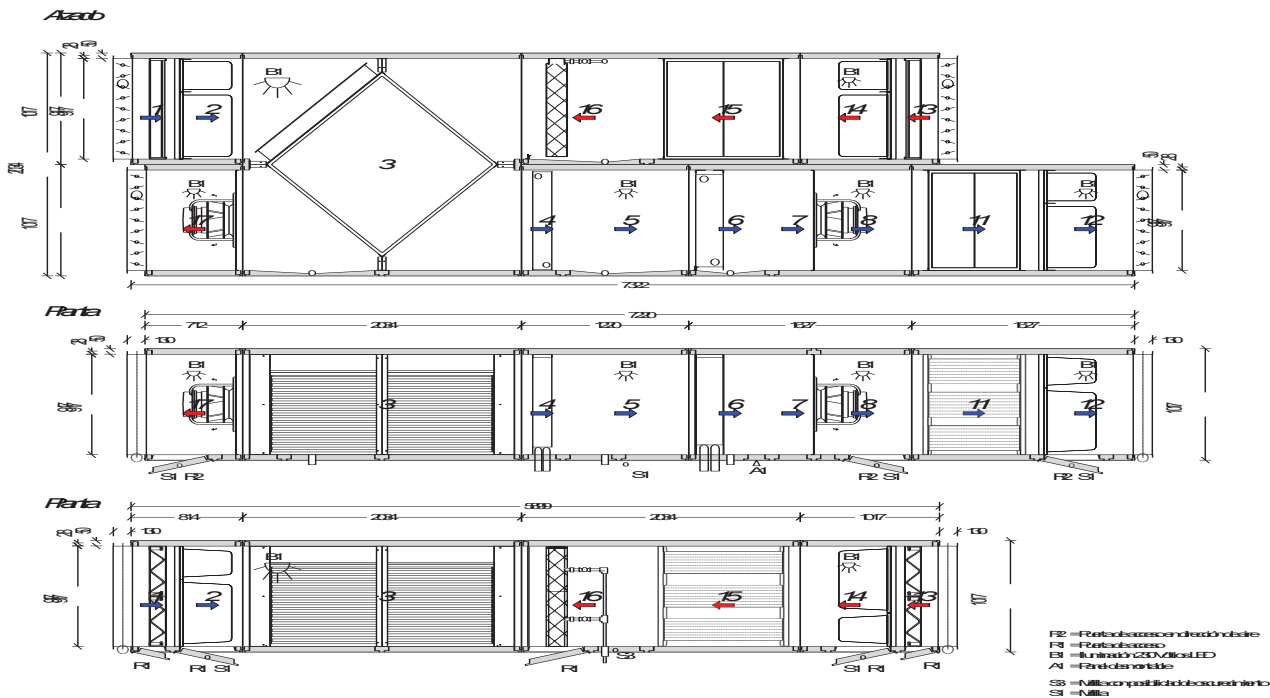


|   |   |                     |
|---|---|---------------------|
|   | Impulsión   | Retorno             |
| Caudal de aire                                      | 4370 m³/h 1,21 m³/s   | 4152 m³/h 1,15 m³/s |
| Presión / pérdida de carga externa                  | 600 Pa  | 150 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,45 m/s  | 1,38 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,4 m/s (V1)  | 1,4 m/s (V1)        |
| Dimensiones (Largo,Ancho,Altura)                    | 7322 x 1017 x 2034 mm   |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 1720 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 4,6 A + Retorno: 2,8 A = 7,4 A   |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 2,95 KW + Retorno: 1,8 KW = 4,75 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 41,18 kW  |                     |
| Potencia de frío necesaria (BAF)                    | 41,64 kW  |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A+  |                     |
| Eficiencia energética RLT                           | A+  |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.





Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890   | ISO Coarse 60% |
|--|----------------|
| Pérdida de carga inicial (limpio)  | 18 Pa          |
| Pérdida de carga seleccionada  | 36 Pa          |
| Pérdida de carga final   | 54 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 1,11 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 1 Pa           |

Acero inoxidable V2A suelo techo lateral  
Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 64 Pa        |
| Pérdida de carga seleccionada       | 114 Pa       |
| Pérdida de carga final              | 164 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 12,14 m²     |



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Acero inoxidable V2A suelo techo lateral

Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Puerta de acceso

**(3) Recuperador de calor de placas de alta eficacia, vertical****Precalentamiento del aire exterior (WRG)**

|   |           |
|---|-----------|
| Temperatura exterior  | -4,9 °C   |
| Humedad relativa de aire exterior   | 90 %      |
| Temperatura del retorno   | 22,0 °C   |
| Humedad relativa del retorno  | 50,0 %    |
| Datos referidos a la temperatura del aire exterior  |           |
| Temperatura del aire exterior mínima  | -4,9 °C   |
| Temperatura de impulsión  | 16,8 °C   |
| Humedad relativa de impulsión   | 19 %      |
| Grado de transferencia de temperatura seca según EN 308                                   | 76 %      |
| Factor de recuperación de calor   | 81 %      |
| Potencia térmica  | 31,7 kW   |
| Condensado  | 12,6 kg/h |
| Temperatura de descarga   | 5,7 °C    |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 155 Pa    |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 142 Pa    |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 0,60 kW   |
| Coeficiente de rendimiento  | 36,10     |
| Eficiencia energética   | 73 %      |
| Clase de recuperador según EN 13053/2020  | H2        |
| Máx. porcentaje de fugas  | 0,25 %    |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 83,5 %    |

**en modo de desescarche (ca. 3.5 °C FOL)**

|  |          |
|--|----------|
| Temperatura de aire de impulsión               | 16,8 °C  |
| <b>Preenfriamiento del aire exterior (WRG)</b> |          |
| Temperatura exterior                           | 35,6 °C  |
| Humedad relativa de aire exterior              | 27,0 %   |
| Temperatura del retorno                        | 24,0 °C  |
| Humedad relativa del retorno                   | 40,0 %   |
| Temperatura de impulsión                       | 27,1 °C  |
| Humedad relativa de impulsión                  | 44 %     |
| Factor de recuperación de calor                | 74 %     |
| Potencia térmica                               | 12,5 kW  |
| Condensado                                     | 0,0 kg/h |
| Temperatura de descarga                        | 33,0 °C  |



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Acero inoxidable V2A suelo techo lateral

No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

Intercambiador, Recuperador vertical, Paquete de placas FG AL 12 N 750 U 1 AE SC

Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm

Bandeja de condensado, Bandeja con salida de condensados, Bandeja 1010

Salida de condensados: DN32, 1 1/4 Pulgadas

Alumbrado, 230V LED, montado y cableado

**(4) Batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 2 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/4 Pulgadas - 1 1/4 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 23,2 °C                         |
| Potencia (total)                      | 41,18 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 2,4 m³/h                        |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 13 Pa                           |
| Pérdida de carga en el lado del medio | 3,63 kPa                        |
| Velocidad del aire                    | 1,85 m/s                        |
| Contenido de agua                     | 4,72 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

Acero inoxidable V2A suelo techo lateral

Lacado

**(5) módulo vacío con bandeja 915 para humectador 31,5 Kg/h**

Acero inoxidable V2A suelo techo lateral

Bandeja en acero inoxidable 1009 KGT salida de condensados a la izquierda

Salida de condensados: DN32, 1 1/4 Pulgadas

Mirilla

Alumbrado, 230V LED, montado y cableado

**(6) Batería de frío**

|   |                                |
|---|--------------------------------|
| Tipo de batería                             | W/28/742/6R/20K/2.8Cu,12/Al-L1 |
| Conexión (entrada/salida)                   | DN 40, 1 1/2" - DN 40, 1 1/2"  |
| Temperatura de aire de entrada              | 36,5 °C                        |
| Humedad relativa                            | 28,2 %                         |
| Temperatura de aire de salida               | 13 °C                          |
| Humedad relativa                            | 96,9 %                         |
| Potencia (latente)                          | 6,32 kW                        |
| Potencia (sensible)                         | 35,32 kW                       |
| Potencia (total)                            | 41,64 kW                       |
| Pérdida de carga en el lado del aire (seco) | 59 Pa                          |
| Entrada del medio                           | 7 °C                           |
| Salida del medio                            | 12 °C                          |



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|                                       |           |
|---------------------------------------|-----------|
| Cantidad de líquido                   | 7,16 m³/h |
| Pérdida de carga en el lado del medio | 20,4 kPa  |
| Velocidad del aire                    | 1,95 m/s  |
| Contenido de agua                     | 16,8 l    |
| Densidad del aire                     | 1,2 kg/m³ |

Acero inoxidable V2A suelo techo lateral  
Rieles de acero inoxidable V2A  
Bandeja en acero inoxidable 1006 KGT  
Salida de condensados: DN32, 1 1/4 Pulgadas

(7) Módulo vacío 305

Acero inoxidable V2A suelo techo lateral

(8) Ventilador, Giro libre con motor EC

|  |   |
|--|---|
| Caudal de aire                               | 4370 m³/h                               |
| Pérdida de carga externa                     | 600 Pa                                  |
| Presión interna del ventilador               | 8 Pa                                    |
| Pérdida de carga interna                     | 544 Pa                                  |
| Pérdida de carga dinámica                    | 83 Pa                                   |
| Pérdida de carga total                       | 1235 Pa                                 |
| Tipo de ventilador                           | VME310-2,95/400EC-4000                  |
| Número de revoluciones del ventilador        | 3630 1/min                              |
| Número de revoluciones máximo del ventilador | 4000 1/min                              |
| Rendimiento total                            | 68,9 %                                  |
| Corriente del motor                          | 3,36 A                                  |
| Corriente máxima del motor                   | 4,60 A                                  |
| Máxima potencia del motor                    | 2,95 kW                                 |
| Tensión del motor                            | 3*400 V                                 |
| Tensión de mando                             | 8,2 V                                   |
| Valor K                                      | 116                                     |
| Clase de eficiencia energética               | corresponde a IE5                       |
| Potencia eléctrica activa Pm                 | 2,18 kW                                 |
| Potencia consumida en las condiciones SFPv   | 2,01 kW                                 |
| SFP (Potencia específica del ventilador)     | 1,66 kW/(m³/s)                          |
|  | 0,460 W/(m³/h)                          |
| Tipo   | 2138685                                 |
| SFP según EN 16798-3                         | SFP3                                    |
| Clase-P según EN 13053 Pm ref: 3,03 kW       | P1                                      |
| Densidad del aire                            | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]                    | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración                     | 41 55 73 75 75 78 83 79 86              |
| Lw(A) lado de impulsión                      | 47 56 70 77 83 84 87 81 91              |

Acero inoxidable V2A suelo techo lateral  
Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla



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Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

(11) Silenciador tipo 11

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 19 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

Acero inoxidable V2A suelo techo lateral  
tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11  
Colisas del silenciador extraíbles para profundidad de 230 mm

(12) Filtro ISO ePM1 85%

|  |  |              |
|--|--|--------------|
| EN ISO 16890   |  | ISO ePM1 85% |
| Pérdida de carga inicial (limpio)  |  | 96 Pa        |
| Pérdida de carga seleccionada  |  | 146 Pa       |
| Pérdida de carga final   |  | 196 Pa       |
| Energieverbrauch (Eurovent 4/21: -)  |  | 3081 kWh     |
| Superficie del filtro  |  | 12,14 m²     |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |  |              |
| Pérdida de carga   |  | 1 Pa         |

Acero inoxidable V2A suelo techo lateral  
Filtro de bolsa F9 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, acero inoxidable, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Retorno

(3) Recuperador de calor de placas de alta eficacia, vertical

Datos técnicos: véase la sección de impulsión

(13) Filtro ISO polvo grueso 60%

|  |  |                |
|--|--|----------------|
| EN ISO 16890   |  | ISO Coarse 60% |
| Pérdida de carga inicial (limpio)  |  | 17 Pa          |
| Pérdida de carga seleccionada  |  | 34 Pa          |
| Pérdida de carga final   |  | 51 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  |  | - kWh          |
| Superficie del filtro  |  | 1,11 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |  |                |
| Pérdida de carga   |  | 1 Pa           |

Acero inoxidable V2A suelo techo lateral



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Filtro sin marco G4

Rieles para filtro de manta, Rieles de filtro de manta

Puerta de acceso

**(14) Filtro ISO ePM1 50%**

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 61 Pa        |
| Pérdida de carga seleccionada       | 111 Pa       |
| Pérdida de carga final              | 161 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 12,14 m²     |

Acero inoxidable V2A suelo techo lateral

Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, acero inoxidable, filtro extraíble

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso

**(15) Silenciador tipo 2**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 6 Pa    |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Acero inoxidable V2A suelo techo lateral

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2

Colisas del silenciador extraíbles para profundidad de 200 mm

**(16) Humectador adiabático de agua perdida**

|   |   |
|---|---|
| Medio   | HU-CEL  |
| Temperatura de entrada del aire                             | 26 °C   |
| Humedad relativa  | 40 %  |
| Temperatura de salida del aire                              | 17,7 °C   |
| Humedad relativa  | 92 %  |
| Velocidad del aire  | 1,8 m/s   |
| Capacidad de humectación                                    | 17,44 kg/h                                      |
| Pérdida de carga  | 30 Pa   |
| Cantidad de agua a intervalos para la humectación del medio | tres o cuatro veces la capacidad de humectación |
| Eficiencia del humectador                                   | 91 %  |
| Humidificación específica                                   | 3,5 g/kg  |

Acero inoxidable V2A suelo techo lateral

Mirilla con posibilidad de oscurecimiento

Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1

Rieles del KBF en acero inoxidable V2A

bandeja acero inoxidable 1009 KGT salida derecha



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Salida de condensados: DN32, 1 1/4 Pulgadas  
Puerta de acceso

(17) Ventilador, Giro libre con motor EC

|  |   |
|--|---|
| Caudal de aire   | 4152 m³/h                               |
| Pérdida de carga externa   | 150 Pa                                  |
| Presión interna del ventilador   | 8 Pa                                    |
| Pérdida de carga interna   | 325 Pa                                  |
| Pérdida de carga dinámica  | 75 Pa                                   |
| Pérdida de carga total   | 558 Pa                                  |
| Tipo de ventilador   | VME310-1,80/400EC-3410                  |
| Número de revoluciones del ventilador  | 2947 1/min                              |
| Número de revoluciones máximo del ventilador   | 3410 1/min                              |
| Rendimiento total  | 59,9 %                                  |
| Corriente del motor  | 1,73 A                                  |
| Corriente máxima del motor   | 2,80 A                                  |
| Máxima potencia del motor  | 1,80 kW                                 |
| Tensión del motor  | 3*400 V                                 |
| Tensión de mando   | 7,67 V                                  |
| Valor K  | 116                                     |
| Clase de eficiencia energética   | corresponde a IE5                       |
| <b>Potencia eléctrica activa Pm</b>  | <b>1,07 kW</b>                          |
| Potencia consumida en las condiciones SFPv   | 0,97 kW                                 |
| SFP (Potencia específica del ventilador)   | 0,84 kW/(m³/s)                          |
|  | 0,234 W/(m³/h)                          |
| Tipo   | 2138497                                 |
| SFP según EN 16798-3   | SFP0                                    |
| Clase-P según EN 13053 Pm ref: 1,28 kW   | P1                                      |
| Densidad del aire  | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]  | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración   | 36 51 66 72 70 74 79 74 82              |
| Lw(A) lado de impulsión  | 39 52 67 73 79 80 83 76 86              |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |   |
| Pérdida de carga   | 1 Pa                                    |

Acero inoxidable V2A suelo techo lateral  
Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Resumen de accesorios

- Acero inoxidable V2A suelo techo lateral
- 6 Alumbrado, 230V LED, montado y cableado
- 6 Mirilla



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- 1 Mirilla con posibilidad de oscurecimiento
- 1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.
- 2 Puerta de acceso
- 6 Puerta de acceso
- 2 Toma de presión conducida hasta el exterior del equipo

## Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|  |   |
|--|---|
| Tipo de equipo   | Unidad de ventilación bidireccional (UVB) |
| Sistema de recuperación  | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.  | 64 / 35 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.                                      | 155 / 142 Pa                              |
| DeltaPs,int  | 396 Pa                                    |
| DeltaPs, adicional   | 288 Pa                                    |
| Eficiencia recuperador/objetivo                                    | 76 / 73 %                                 |
| Vent. eta opt. EU:327/2011   | (8) 66,1% (17) 67,4%                      |
| Grado de eficiencia N  | (8) 71,7 / (17) 75,4                      |
| Vent. eta stat. eingebaut  | (8) 63,8% (17) 51%                        |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 690 / 1012 W/(m³/s)                       |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1,23 %                                    |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,76 %                                    |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



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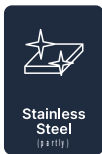
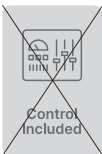


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|                        |                       |                                  |
|------------------------|-----------------------|----------------------------------|
| Cliente                | Proyecto / Referencia | LV-Pos./Adjunto                  |
| GOC                    | CL-0210 Quirofano 1   |                                  |
| Su persona de contacto | Su referencia         | Nuestro responsable del proyecto |

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno  |
| Tamaño (Imp/Ret)                           | AHU TE EC 64   |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple  |
| Ubicación                                  | para interior  |
| Variante                                   | Estándar   |
| Tratamiento de la superficie de la carcasa | galvanizado  |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Deshumectar   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas  |

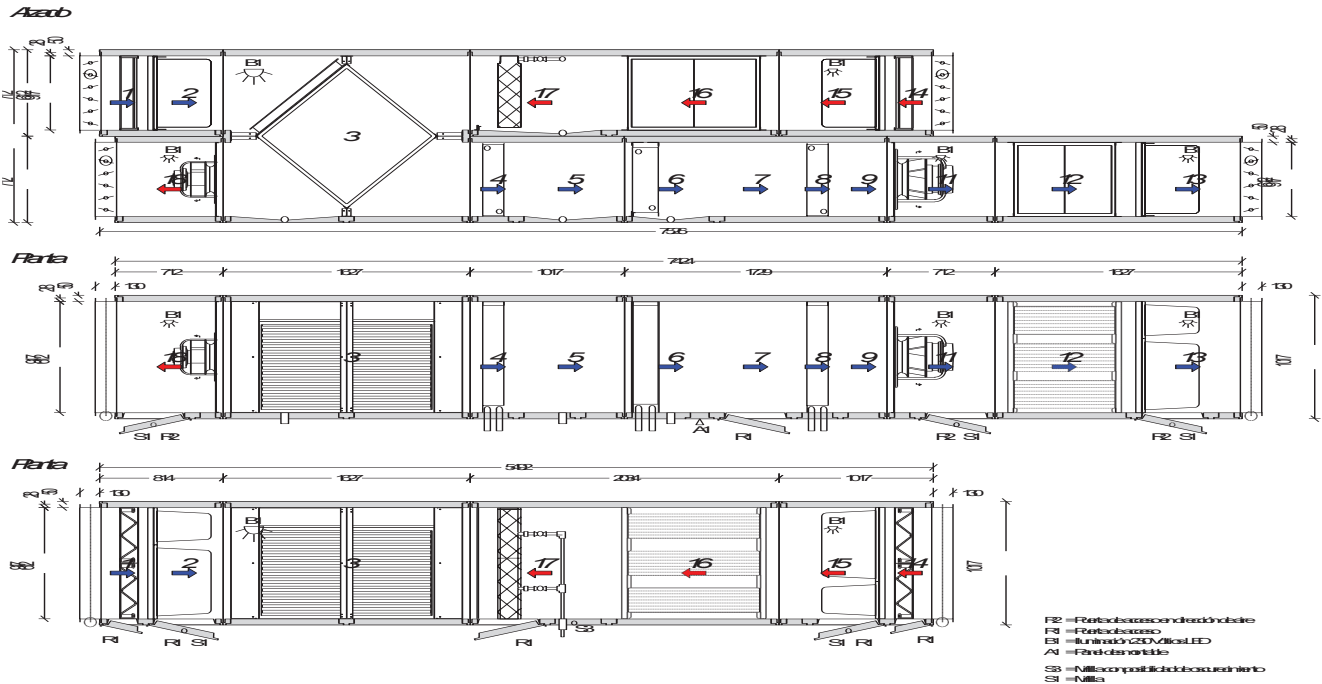


|   |   |                     |
|---|---|---------------------|
|   | Impulsión   | Retorno             |
| Caudal de aire                                      | 2520 m³/h 0,70 m³/s   | 2349 m³/h 0,65 m³/s |
| Presión / pérdida de carga externa                  | 600 Pa  | 175 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,25 m/s  | 1,17 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,3 m/s (V1)  | 1,2 m/s (V1)        |
| Dimensiones (Largo,Ancho,Altura)                    | 7526 x 1017 x 1424 mm   |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 1377 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 2,8 A + Retorno: 3,3 A = 6,1 A   |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 1,8 KW + Retorno: 0,75 KW = 2,55 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 26,96 kW  |                     |
| Potencia de frío necesaria (BAF)                    | 23,01 kW  |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A+  |                     |
| Eficiencia energética RLT                           | A+  |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.





Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890   | ISO Coarse 60% |
|--|----------------|
| Pérdida de carga inicial (limpio)  | 16 Pa          |
| Pérdida de carga seleccionada  | 32 Pa          |
| Pérdida de carga final   | 48 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 0,74 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 1 Pa           |

Acero inoxidable V2A suelo techo lateral  
 Filtro sin marco G4  
 Rieles para filtro de manta, Rieles de filtro de manta  
 Puerta de acceso

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 55 Pa        |
| Pérdida de carga seleccionada       | 105 Pa       |
| Pérdida de carga final              | 155 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 8,09 m²      |



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Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Puerta de acceso

**(3) Recuperador de calor de placas de alta eficacia, vertical****Precalentamiento del aire exterior (WRG)**

|   |          |
|---|----------|
| Temperatura exterior  | -4,9 °C  |
| Humedad relativa de aire exterior   | 90 %     |
| Temperatura del retorno   | 22,0 °C  |
| Humedad relativa del retorno  | 50,0 %   |
| Datos referidos a la temperatura del aire exterior  |          |
| Temperatura del aire exterior mínima  | -4,9 °C  |
| Temperatura de impulsión  | 17,3 °C  |
| Humedad relativa de impulsión   | 19 %     |
| Grado de transferencia de temperatura seca según EN 308                                   | 77 %     |
| Factor de recuperación de calor   | 83 %     |
| Potencia térmica  | 18,7 kW  |
| Condensado  | 7,4 kg/h |
| Temperatura de descarga   | 5,0 °C   |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 118 Pa   |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 104 Pa   |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 0,30 kW  |
| Coeficiente de rendimiento  | 48,10    |
| Eficiencia energética   | 75 %     |
| Clase de recuperador según EN 13053/2020  | H1       |
| Máx. porcentaje de fugas  | 0,25 %   |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 84,7 %   |

**en modo de desescarche (ca. 3.5 °C FOL)**

|                                  |         |
|----------------------------------|---------|
| Temperatura de aire de impulsión | 17,3 °C |
|----------------------------------|---------|

**Preenfriamiento del aire exterior (WRG)**

|                                   |          |
|-----------------------------------|----------|
| Temperatura exterior              | 35,6 °C  |
| Humedad relativa de aire exterior | 27,0 %   |
| Temperatura del retorno           | 24,0 °C  |
| Humedad relativa del retorno      | 40,0 %   |
| Temperatura de impulsión          | 27,0 °C  |
| Humedad relativa de impulsión     | 44 %     |
| Factor de recuperación de calor   | 74 %     |
| Potencia térmica                  | 7,3 kW   |
| Condensado                        | 0,0 kg/h |
| Temperatura de descarga           | 33,2 °C  |



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No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

Intercambiador, Recuperador vertical, Paquete de placas AG AL 09 N 0750 C 1 AE SC

Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm

Bandeja 1008 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

Alumbrado, 230V LED, montado y cableado

**(4) Batería de calor**

|                                       |                             |
|---------------------------------------|-----------------------------|
| Tipo de batería                       | 1 Cu/Al LT                  |
| Conexión (entrada/salida)             | 3/4 Pulgadas - 3/4 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                     |
| Temperatura de aire de salida         | 13,5 °C                     |
| Potencia (total)                      | 15,55 kW                    |
| Entrada del medio                     | 60 °C                       |
| Salida del medio                      | 45 °C                       |
| Cantidad de líquido                   | 0,9 m³/h                    |
| Protección antihielo                  | 0 %                         |
| Pérdida de carga en el lado del aire  | 12 Pa                       |
| Pérdida de carga en el lado del medio | 4,3 kPa                     |
| Velocidad del aire                    | 1,7 m/s                     |
| Contenido de agua                     | 2,97 l                      |
| Densidad del aire                     | 1,2 kg/m³                   |

Acero inoxidable V2A suelo techo lateral

Lacado

**(5) Módulo vacío con bandeja 712 para humectador 18,5 Kg/h**

Acero inoxidable V2A suelo techo lateral

Bandeja en inox 1007 KGT desagüe a izquierdas

Salida de condensados: DN32, 1 1/4 Pulgadas

**(6) Batería de frío**

|   |                                 |
|---|---------------------------------|
| Tipo de batería                             | W/22/759/6R/18K/3.0Cu,9.5/Al-L1 |
| Conexión (entrada/salida)                   | DN 32, 1 1/4" - DN 32, 1 1/4"   |
| Temperatura de aire de entrada              | 36,5 °C                         |
| Humedad relativa                            | 27,0 %                          |
| Temperatura de aire de salida               | 13 °C                           |
| Humedad relativa                            | 96,8 %                          |
| Potencia (latente)                          | 2,68 kW                         |
| Potencia (sensible)                         | 20,33 kW                        |
| Potencia (total)                            | 23,01 kW                        |
| Pérdida de carga en el lado del aire (seco) | 48 Pa                           |
| Entrada del medio                           | 7 °C                            |
| Salida del medio                            | 12 °C                           |
| Cantidad de líquido                         | 3,96 m³/h                       |
| Pérdida de carga en el lado del medio       | 18,4 kPa                        |



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|                    |                       |
|--------------------|-----------------------|
| Velocidad del aire | 1,68 m/s              |
| Contenido de agua  | 8,4 l                 |
| Densidad del aire  | 1,2 kg/m <sup>3</sup> |

Acero inoxidable V2A suelo techo lateral  
 Rieles de acero inoxidable V2A  
 Bandeja en acero inoxidable 1006 KGT  
 Salida de condensados: DN32, 1 1/4 Pulgadas

**(7) Módulo vacío 509**

Acero inoxidable V2A suelo techo lateral  
 Puerta de acceso

**(8) Batería de calor**

|                                       |                             |
|---------------------------------------|-----------------------------|
| Tipo de batería                       | 1 Cu/Al LT                  |
| Conexión (entrada/salida)             | 3/4 Pulgadas - 3/4 Pulgadas |
| Temperatura de aire de entrada        | 13,5 °C                     |
| Temperatura de aire de salida         | 27 °C                       |
| Potencia (total)                      | 11,42 kW                    |
| Entrada del medio                     | 60 °C                       |
| Salida del medio                      | 45 °C                       |
| Cantidad de líquido                   | 0,66 m <sup>3</sup> /h      |
| Protección antihielo                  | 0 %                         |
| Pérdida de carga en el lado del aire  | 12 Pa                       |
| Pérdida de carga en el lado del medio | 2,48 kPa                    |
| Velocidad del aire                    | 1,7 m/s                     |
| Contenido de agua                     | 2,97 l                      |
| Densidad del aire                     | 1,2 kg/m <sup>3</sup>       |

Acero inoxidable V2A suelo techo lateral  
 Lacado

**(9) Módulo vacío 305**

Acero inoxidable V2A suelo techo lateral

**(11) Ventilador, Giro libre con motor EC**

|  |                        |
|--|------------------------|
| Caudal de aire                               | 2520 m <sup>3</sup> /h |
| Pérdida de carga externa                     | 600 Pa                 |
| Presión interna del ventilador               | 3 Pa                   |
| Pérdida de carga interna                     | 477 Pa                 |
| Pérdida de carga dinámica                    | 28 Pa                  |
| Pérdida de carga total                       | 1108 Pa                |
| Tipo de ventilador                           | VME310-1,80/400EC-3410 |
| Número de revoluciones del ventilador        | 3041 1/min             |
| Número de revoluciones máximo del ventilador | 3410 1/min             |
| Rendimiento total                            | 59,3 %                 |
| Corriente del motor                          | 2,06 A                 |



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|  |   |
|--|---|
| Corriente máxima del motor                 | 2,80 A                                  |
| Máxima potencia del motor                  | 1,80 kW                                 |
| Tensión del motor                          | 3*400 V                                 |
| Tensión de mando                           | 8,03 V                                  |
| Valor K                                    | 116                                     |
| Clase de eficiencia energética             | corresponde a IE5                       |
| <b>Potencia eléctrica activa Pm</b>        | <b>1,31 kW</b>                          |
| Potencia consumida en las condiciones SFPv | 1,17 kW                                 |
| SFP (Potencia específica del ventilador)   | 1,67 kW/(m³/s)                          |
|  | 0,463 W/(m³/h)                          |
| Tipo                                       | 2138497                                 |
| SFP según EN 16798-3                       | SFP3                                    |
| Clase-P según EN 13053 Pm ref: 1,77 kW     | P1                                      |
| Densidad del aire                          | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]                  | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración                   | 42 59 77 74 72 74 72 67 81              |
| Lw(A) lado de impulsión                    | 45 59 79 76 80 80 79 72 86              |

Acero inoxidable V2A suelo techo lateral

Toma de presión conducida hasta el exterior del equipo

Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire

**(12) Silenciador tipo 11**

|  |       |
|--|-------|
| Pérdida de carga seleccionada                              | 15 Pa |
| Introducción de la amortiguación                           |       |
| 63 Hz 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz 8000 Hz |       |
| 4 dB 8 dB 18 dB 21 dB 23 dB 17 dB 13 dB 14 dB              |       |

Acero inoxidable V2A suelo techo lateral

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11

Colisas del silenciador extraíbles para profundidad de 230 mm

**(13) Filtro ISO ePM1 85%**

|  |              |
|--|--------------|
| EN ISO 16890   | ISO ePM1 85% |
| Pérdida de carga inicial (limpio)  | 83 Pa        |
| Pérdida de carga seleccionada  | 133 Pa       |
| Pérdida de carga final   | 183 Pa       |
| Energieverbrauch (Eurovent 4/21: -)  | 3081 kWh     |
| Superficie del filtro  | 8,09 m²      |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |              |
| Pérdida de carga   | 1 Pa         |

Acero inoxidable V2A suelo techo lateral

Filtro de bolsa F9 (energía optimizada)

Bastidor deslizante con palanca de sujeción, acero inoxidable, filtro extraíble



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Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Retorno

(3) Recuperador de calor de placas de alta eficacia, vertical

Datos técnicos: véase la sección de impulsión

(14) Filtro ISO polvo grueso 60%

| EN ISO 16890   | ISO Coarse 60% |
|--|----------------|
| Pérdida de carga inicial (limpio)  | 15 Pa          |
| Pérdida de carga seleccionada  | 30 Pa          |
| Pérdida de carga final   | 45 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 0,74 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 1 Pa           |

Acero inoxidable V2A suelo techo lateral  
Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso

(15) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 52 Pa        |
| Pérdida de carga seleccionada       | 102 Pa       |
| Pérdida de carga final              | 152 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 8,09 m²      |

Acero inoxidable V2A suelo techo lateral  
Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso



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**(16) Silenciador tipo 2**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 4 Pa    |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Acero inoxidable V2A suelo techo lateral

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2

Colisas del silenciador extraíbles para profundidad de 200 mm

**(17) Humectador adiabático de agua perdida**

|   |   |
|---|---|
| Medio   | HU-CEL  |
| Temperatura de entrada del aire                             | 26 °C   |
| Humedad relativa  | 40 %  |
| Temperatura de salida del aire                              | 17,7 °C   |
| Humedad relativa  | 92 %  |
| Velocidad del aire  | 1,8 m/s   |
| Capacidad de humectación                                    | 9,87 kg/h                                       |
| Pérdida de carga  | 30 Pa   |
| Cantidad de agua a intervalos para la humectación del medio | tres o cuatro veces la capacidad de humectación |
| Eficiencia del humectador                                   | 91 %  |
| Humidificación específica                                   | 3,5 g/kg  |

Acero inoxidable V2A suelo techo lateral

Mirilla con posibilidad de oscurecimiento

Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1

Rieles del KBF en acero inoxidable V2A

bandeja acero inoxidable 1009 KGT salida derecha

Salida de condensados: DN32, 1 1/4 Pulgadas

Puerta de acceso

**(18) Ventilador, Giro libre con motor EC**

|  |                           |
|--|---------------------------|
| Caudal de aire                               | 2349 m³/h                 |
| Pérdida de carga externa                     | 175 Pa                    |
| Presión interna del ventilador               | 5 Pa                      |
| Pérdida de carga interna                     | 272 Pa                    |
| Pérdida de carga dinámica                    | 48 Pa                     |
| Pérdida de carga total                       | 500 Pa                    |
| Tipo de ventilador                           | VME280-0,75/230EC-3000-mK |
| Número de revoluciones del ventilador        | 2654 1/min                |
| Número de revoluciones máximo del ventilador | 3000 1/min                |
| Rendimiento total                            | 64,0 %                    |
| Corriente del motor                          | 2,25 A                    |
| Corriente máxima del motor                   | 3,30 A                    |
| Máxima potencia del motor                    | 0,75 kW                   |
| Tensión del motor                            | 1 x 230 V                 |



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|  |   |
|--|---|
| Tensión de mando   | 7,91 V                                  |
| Valor K  | 77                                      |
| Clase de eficiencia energética   | corresponde a IE5                       |
| Potencia eléctrica activa Pm   | 0,51 kW                                 |
| Potencia consumida en las condiciones SFPv   | 0,46 kW                                 |
| SFP (Potencia específica del ventilador)   | 0,70 kW/(m³/s)                          |
|  | 0,194 W/(m³/h)                          |
| Tipo   | 2138494                                 |
| SFP según EN 16798-3   | SFP0                                    |
| Clase-P según EN 13053 Pm ref: 0,74 kW   | P1                                      |
| Densidad del aire  | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]  | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración   | 39 50 61 64 66 65 69 65 73              |
| Lw(A) lado de impulsión  | 39 52 72 74 76 75 70 66 81              |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |   |
| Pérdida de carga   | 1 Pa                                    |

Acero inoxidable V2A suelo techo lateral  
Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Resumen de accesorios

- Acero inoxidable V2A suelo techo lateral
- 5 Alumbrado, 230V LED, montado y cableado
- 5 Mirilla
- 1 Mirilla con posibilidad de oscurecimiento
- 1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.
- 2 Puerta de acceso
- 7 Puerta de acceso
- 2 Toma de presión conducida hasta el exterior del equipo

Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|                                 |   |
|---------------------------------|---|
| Tipo de equipo                  | Unidad de ventilación bidireccional (UVB) |
| Sistema de recuperación         | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.       | 55 / 29 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.   | 118 / 104 Pa                              |
| DeltaPs,int                     | 306 Pa                                    |
| DeltaPs, adicional              | 262 Pa                                    |
| Eficiencia recuperador/objetivo | 77 / 73 %                                 |
| Vent. eta opt. EU:327/2011      | (11) 67,4% (18) 67,6%                     |



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|  |                       |
|--|-----------------------|
| Grado de eficiencia N  | (11) 75,4 / (18) 79,6 |
| Vent. eta stat. eingebaut  | (11) 57,6% (18) 57,2% |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 533 / 1119 W/(m³/s)   |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1,56 %                |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,97 %                |

Notas:

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014. Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva. Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo. El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética. Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



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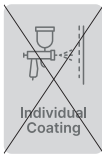
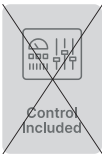
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|                        |   |                                  |
|------------------------|---|----------------------------------|
| Cliente<br>GOC         | Proyecto / Referencia<br>CL-0209 AUXILIAR BQ Y HOSPITAL DIA | LV-Pos./Adjunto                  |
| Su persona de contacto | Su referencia   | Nuestro responsable del proyecto |

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno                            |
| Tamaño (Imp/Ret)                           | AHU TE EC 96                                   |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple                              |
| Ubicación                                  | para interior                                  |
| Variante                                   | Estándar                                       |
| Tratamiento de la superficie de la carcasa | galvanizado                                    |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas                          |

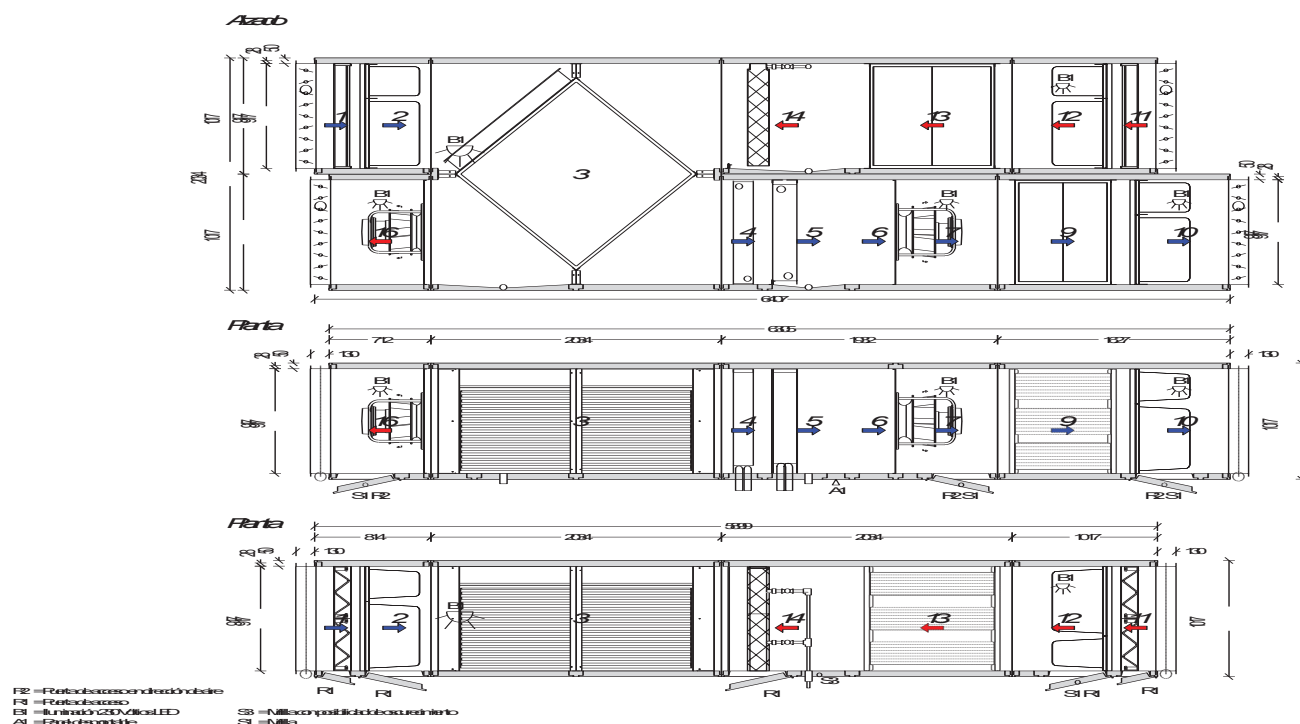


|   | Impulsión   | Retorno             |
|---|---|---------------------|
| Caudal de aire                                      | 5400 m³/h 1,50 m³/s   | 5130 m³/h 1,43 m³/s |
| Presión / pérdida de carga externa                  | 300 Pa  | 300 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,79 m/s  | 1,70 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,8 m/s (V2)  | 1,7 m/s (V2)        |
| Dimensiones (Largo,Ancho,Altura)                    | 6407 x 1017 x 2034 mm   |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 1581 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 3,8 A + Retorno: 3 A = 6,8 A   |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 2,5 KW + Retorno: 1,9 KW = 4,4 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 48,71 kW  |                     |
| Potencia de frío necesaria (BAF)                    | 25,93 kW  |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A   |                     |
| Eficiencia energética RLT                           | A+  |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.





## Datos técnicos

## Impulsión

**(1) Filtro ISO polvo grueso 60%**

|  |                |
|--|----------------|
| EN ISO 16890   | ISO Coarse 60% |
| Pérdida de carga inicial (limpio)  | 23 Pa          |
| Pérdida de carga seleccionada  | 46 Pa          |
| Pérdida de carga final   | 69 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 1,11 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 2 Pa           |

Filtro sin marco G4

Rieles para filtro de manta, Rieles de filtro de manta

Puerta de acceso

**(2) Filtro ISO ePM1 50%**

|                                     |              |
|-------------------------------------|--------------|
| EN ISO 16890                        | ISO ePM1 50% |
| Pérdida de carga inicial (limpio)   | 79 Pa        |
| Pérdida de carga seleccionada       | 129 Pa       |
| Pérdida de carga final              | 179 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 12,14 m²     |



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Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Puerta de acceso

**(3) Recuperador de calor de placas de alta eficacia, vertical****Precalentamiento del aire exterior (WRG)**

|   |           |
|---|-----------|
| Temperatura exterior  | -4,9 °C   |
| Humedad relativa de aire exterior   | 90 %      |
| Temperatura del retorno   | 22,0 °C   |
| Humedad relativa del retorno  | 50,0 %    |
| Datos referidos a la temperatura del aire exterior  |           |
| Temperatura del aire exterior mínima  | -7,0 °C   |
| Temperatura de impulsión  | 16,7 °C   |
| Humedad relativa de impulsión   | 19 %      |
| Grado de transferencia de temperatura seca según EN 308                                   | 73 %      |
| Factor de recuperación de calor   | 81 %      |
| Potencia térmica  | 39,4 kW   |
| Condensado  | 16,0 kg/h |
| Temperatura de descarga   | 5,6 °C    |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 185 Pa    |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 169 Pa    |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 0,90 kW   |
| Coeficiente de rendimiento  | 29,90     |
| Eficiencia energética   | 71 %      |
| Clase de recuperador según EN 13053/2020  | H2        |
| Máx. porcentaje de fugas  | 0,25 %    |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 81,3 %    |

**Preenfriamiento del aire exterior (WRG)**

|                                   |          |
|-----------------------------------|----------|
| Temperatura exterior              | 35,6 °C  |
| Humedad relativa de aire exterior | 27,0 %   |
| Temperatura del retorno           | 24,0 °C  |
| Humedad relativa del retorno      | 40,0 %   |
| Temperatura de impulsión          | 27,3 °C  |
| Humedad relativa de impulsión     | 43 %     |
| Factor de recuperación de calor   | 71 %     |
| Potencia térmica                  | 15,2 kW  |
| Condensado                        | 0,0 kg/h |
| Temperatura de descarga           | 32,7 °C  |

No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

Intercambiador, KGXD con bypass, Paquete de placas SV-120/AX/0750"

Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm

Bandeja de condensado, Bandeja con salida de condensados, Bandeja 1010



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Salida de condensados: DN32, 1 1/4 Pulgadas

Alumbrado, 230V LED, montado y cableado

**(4) Batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 2 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/4 Pulgadas - 1 1/4 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 22 °C                           |
| Potencia (total)                      | 48,71 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 2,83 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 20 Pa                           |
| Pérdida de carga en el lado del medio | 4,88 kPa                        |
| Velocidad del aire                    | 2,29 m/s                        |
| Contenido de agua                     | 4,72 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

**(5) Batería de frío**

|   |                                |
|---|--------------------------------|
| Tipo de batería                             | W/28/749/3R/13K/3.0Cu,12/Al-L1 |
| Conexión (entrada/salida)                   | DN 32, 1 1/4" - DN 32, 1 1/4"  |
| Temperatura de aire de entrada              | 36,5 °C                        |
| Humedad relativa                            | 27,0 %                         |
| Temperatura de aire de salida               | 22,5 °C                        |
| Humedad relativa                            | 60,5 %                         |
| Potencia (sensible)                         | 25,93 kW                       |
| Potencia (total)                            | 25,93 kW                       |
| Pérdida de carga en el lado del aire (seco) | 43 Pa                          |
| Entrada del medio                           | 7 °C                           |
| Salida del medio                            | 12 °C                          |
| Cantidad de líquido                         | 4,46 m³/h                      |
| Pérdida de carga en el lado del medio       | 17,4 kPa                       |
| Velocidad del aire                          | 2,38 m/s                       |
| Contenido de agua                           | 8,9 l                          |
| Densidad del aire                           | 1,2 kg/m³                      |

Rieles de acero inoxidable V2A

Bandeja en acero inoxidable 1006 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

**(6) Módulo vacío 305****(7) Ventilador, Giro libre con motor EC**

|                                |           |
|--------------------------------|-----------|
| Caudal de aire                 | 5400 m³/h |
| Pérdida de carga externa       | 300 Pa    |
| Presión interna del ventilador | 4 Pa      |



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|  |   |
|--|---|
| Pérdida de carga interna                     | 626 Pa                                  |
| Pérdida de carga dinámica                    | 44 Pa                                   |
| Pérdida de carga total                       | 974 Pa                                  |
| Tipo de ventilador                           | VME400-2,50/400EC-2450                  |
| Número de revoluciones del ventilador        | 2332 1/min                              |
| Número de revoluciones máximo del ventilador | 2450 1/min                              |
| Rendimiento total                            | 67,8 %                                  |
| Corriente del motor                          | 3,28 A                                  |
| Corriente máxima del motor                   | 3,80 A                                  |
| Máxima potencia del motor                    | 2,50 kW                                 |
| Tensión del motor                            | 3*400 V                                 |
| Tensión de mando                             | 8,04 V                                  |
| Valor K                                      | 188                                     |
| Clase de eficiencia energética               | corresponde a IE5                       |
| <b>Potencia eléctrica activa Pm</b>          | <b>2,16 kW</b>                          |
| Potencia consumida en las condiciones SFPv   | 1,88 kW                                 |
| SFP (Potencia específica del ventilador)     | 1,25 kW/(m³/s)                          |
|  | 0,347 W/(m³/h)                          |
| Tipo   | 2138501                                 |
| SFP según EN 16798-3                         | SFP2                                    |
| Clase-P según EN 13053 Pm ref: 3,01 kW       | P1                                      |
| Densidad del aire                            | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]                    | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración                     | 43 67 70 71 73 77 73 65 81              |
| Lw(A) lado de impulsión                      | 46 65 71 82 79 82 77 70 87              |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

(9) Silenciador tipo 11

|  |       |
|--|-------|
| Pérdida de carga seleccionada                              | 30 Pa |
| Introducción de la amortiguación                           |       |
| 63 Hz 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz 8000 Hz |       |
| 4 dB 8 dB 18 dB 21 dB 23 dB 17 dB 13 dB 14 dB              |       |

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11  
Colisas del silenciador extraíbles para profundidad de 230 mm

(10) Filtro ISO ePM1 85%

|                                     |              |
|-------------------------------------|--------------|
| EN ISO 16890                        | ISO ePM1 85% |
| Pérdida de carga inicial (limpio)   | 119 Pa       |
| Pérdida de carga seleccionada       | 169 Pa       |
| Pérdida de carga final              | 219 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 3081 kWh     |
| Superficie del filtro               | 12,14 m²     |



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|  |      |
|--|------|
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |      |
| Pérdida de carga   | 2 Pa |

Filtro de bolsa F9 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Retorno

(3) Recuperador de calor de placas de alta eficacia, vertical

Datos técnicos: véase la sección de impulsión

(11) Filtro ISO polvo grueso 60%

|  |                |
|--|----------------|
| EN ISO 16890   | ISO Coarse 60% |
| Pérdida de carga inicial (limpio)  | 21 Pa          |
| Pérdida de carga seleccionada  | 42 Pa          |
| Pérdida de carga final   | 63 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 1,11 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 2 Pa           |

Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso

(12) Filtro ISO ePM1 50%

|                                     |              |
|-------------------------------------|--------------|
| EN ISO 16890                        | ISO ePM1 50% |
| Pérdida de carga inicial (limpio)   | 75 Pa        |
| Pérdida de carga seleccionada       | 125 Pa       |
| Pérdida de carga final              | 175 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 12,14 m²     |

Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso



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**(13) Silenciador tipo 2**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 9 Pa    |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2

Colisas del silenciador extraíbles para profundidad de 200 mm

**(14) Humectador adiabático de agua perdida**

|   |   |
|---|---|
| Medio   | HU-CEL  |
| Temperatura de entrada del aire                             | 26 °C   |
| Humedad relativa  | 40 %  |
| Temperatura de salida del aire                              | 17,8 °C   |
| Humedad relativa  | 91 %  |
| Velocidad del aire  | 2,3 m/s   |
| Capacidad de humectación                                    | 20,93 kg/h                                      |
| Pérdida de carga  | 40 Pa   |
| Cantidad de agua a intervalos para la humectación del medio | tres o cuatro veces la capacidad de humectación |
| Eficiencia del humectador                                   | 90 %  |
| Humidificación específica                                   | 3,4 g/kg  |

Mirilla con posibilidad de oscurecimiento

Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1

Rieles del KBF en acero inoxidable V2A

bandeja acero inoxidable 1009 KGT salida derecha

Salida de condensados: DN32, 1 1/4 Pulgadas

Puerta de acceso

**(16) Ventilador, Giro libre con motor EC**

|  |                        |
|--|------------------------|
| Caudal de aire                               | 5130 m³/h              |
| Pérdida de carga externa                     | 300 Pa                 |
| Presión interna del ventilador               | 7 Pa                   |
| Pérdida de carga interna                     | 389 Pa                 |
| Pérdida de carga dinámica                    | 72 Pa                  |
| Pérdida de carga total                       | 768 Pa                 |
| Tipo de ventilador                           | VME355-1,90/400EC-2870 |
| Número de revoluciones del ventilador        | 2752 1/min             |
| Número de revoluciones máximo del ventilador | 2870 1/min             |
| Rendimiento total                            | 68,1 %                 |
| Corriente del motor                          | 2,51 A                 |
| Corriente máxima del motor                   | 3,00 A                 |
| Máxima potencia del motor                    | 1,90 kW                |
| Tensión del motor                            | 3*400 V                |
| Tensión de mando                             | 8,06 V                 |
| Valor K                                      | 148                    |



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|  |    |     |     |     |      |                   |      |      |      |
|--|----|-----|-----|-----|------|-------------------|------|------|------|
| Clase de eficiencia energética   |    |     |     |     |      | corresponde a IE5 |      |      |      |
| Potencia eléctrica activa Pm   |    |     |     |     |      | 1,61 kW           |      |      |      |
| Potencia consumida en las condiciones SFPv   |    |     |     |     |      | 1,48 kW           |      |      |      |
| SFP (Potencia específica del ventilador)   |    |     |     |     |      | 1,04 kW/(m³/s)    |      |      |      |
|  |    |     |     |     |      | 0,289 W/(m³/h)    |      |      |      |
| Tipo   |    |     |     |     |      | 2138499           |      |      |      |
| SFP según EN 16798-3   |    |     |     |     |      | SFP1              |      |      |      |
| Clase-P según EN 13053 Pm ref: 2,19 kW   |    |     |     |     |      | P1                |      |      |      |
| Densidad del aire  |    |     |     |     |      | 1,2 kg/m³         |      |      |      |
| Frecuencia de octava [Hz]  | 63 | 125 | 250 | 500 | 1000 | 2000              | 4000 | 8000 | Suma |
| Lw(A) lado de aspiración   | 35 | 51  | 66  | 71  | 71   | 74                | 77   | 71   | 81   |
| Lw(A) lado de impulsión  | 38 | 53  | 68  | 73  | 79   | 80                | 81   | 75   | 86   |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |    |     |     |     |      |                   |      |      |      |
| Pérdida de carga   |    |     |     |     |      | 2 Pa              |      |      |      |

Toma de presión conducida hasta el exterior del equipo

Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire

**Resumen de accesorios**

5 Alumbrado, 230V LED, montado y cableado

4 Mirilla

1 Mirilla con posibilidad de oscurecimiento

1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

2 Puerta de acceso

6 Puerta de acceso

2 Toma de presión conducida hasta el exterior del equipo

**Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)**

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|  |   |          |
|--|---|----------|
| Tipo de equipo   | Unidad de ventilación bidireccional (UVB) |          |
| Sistema de recuperación  | Recuperador de placas                     |          |
| DeltaP Filtro Imp. / Ret.  | 79 / 43                                   | Pa       |
| DeltaP WRG (seco) Imp. / Ret.                                      | 185 / 169                                 | Pa       |
| DeltaPs,int  | 476                                       | Pa       |
| DeltaPs, adicional   | 345                                       | Pa       |
| Eficiencia recuperador/objetivo                                    | 73 / 73                                   | %        |
| Vent. eta opt. EU:327/2011   | (7) 69,1% (16) 68,8%                      |          |
| Grado de eficiencia N  | (7) 75,5 (16) 76,4                        |          |
| Vent. eta stat. eingebaut  | (7) 64,4% (16) 61,1%                      |          |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 757 / 881                                 | W/(m³/s) |



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|   |        |
|---|--------|
| Máximo caudal de fuga de aire exterior a +400 Pa (RU) | 1,03 % |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)  | 0,64 % |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



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Cliente

GOC

Proyecto / Referencia

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LV-Pos./Adjunto

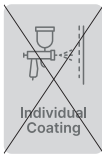
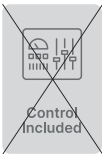
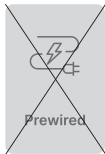
Su persona de contacto

Su referencia

Nuestro responsable del proyecto

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno  |
| Tamaño (Imp/Ret)                           | AHU TE EC 110  |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple  |
| Ubicación                                  | para interior  |
| Variante                                   | Estándar   |
| Tratamiento de la superficie de la carcasa | galvanizado  |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Deshumectar   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas  |

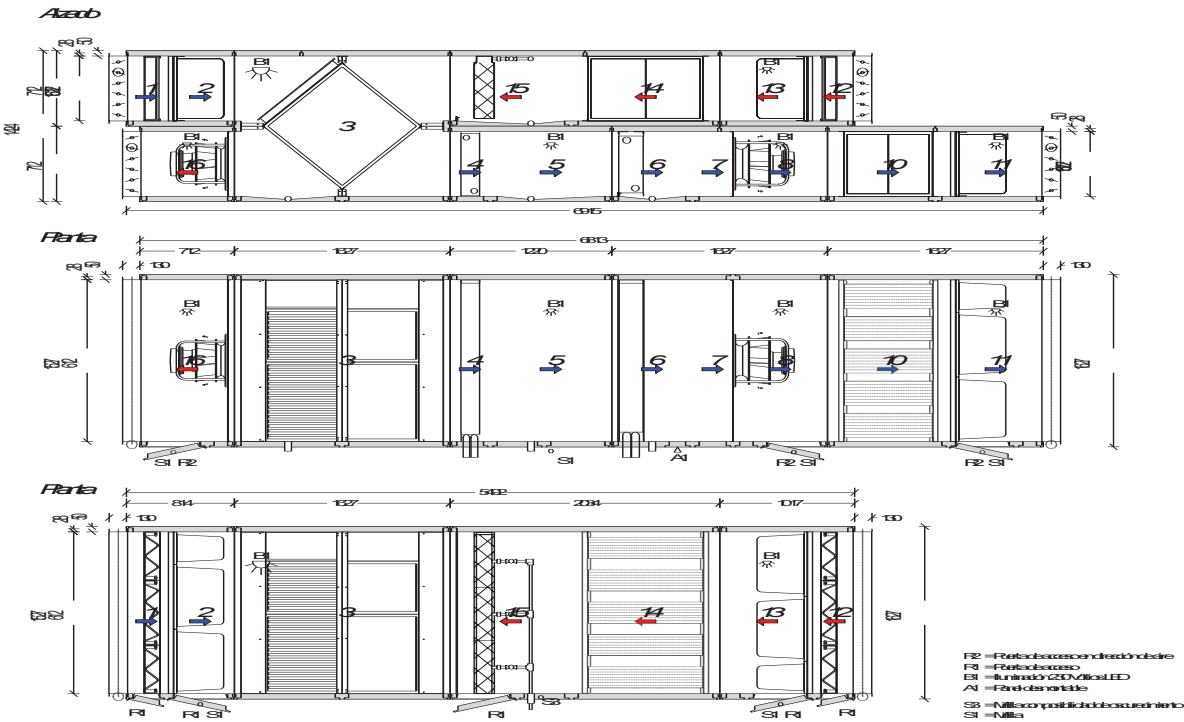


|   | Impulsión   | Retorno             |
|---|---|---------------------|
| Caudal de aire                                      | 5645 m³/h 1,57 m³/s   | 5362 m³/h 1,49 m³/s |
| Presión / pérdida de carga externa                  | 200 Pa  | 175 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,69 m/s  | 1,60 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,7 m/s (V2)  | 1,6 m/s (V1)        |
| Dimensiones (Largo,Ancho,Altura)                    | 6915 x 1627 x 1424 mm   |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 1913 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 3,8 A + Retorno: 3 A = 6,8 A   |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 2,5 KW + Retorno: 1,9 KW = 4,4 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 55,84 kW  |                     |
| Potencia de frío necesaria (BAF)                    | 48,1 kW   |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A   |                     |
| Eficiencia energética RLT                           | A+  |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.





Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890   | ISO Coarse 60% |
|--|----------------|
| Pérdida de carga inicial (limpio)  | 21 Pa          |
| Pérdida de carga seleccionada  | 42 Pa          |
| Pérdida de carga final   | 63 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 1,26 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 2 Pa           |

Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 74 Pa        |
| Pérdida de carga seleccionada       | 124 Pa       |
| Pérdida de carga final              | 174 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 13,48 m²     |



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Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Puerta de acceso

(3) Recuperador de calor de placas de alta eficacia, vertical

|   |           |
|---|-----------|
| <b>Precalentamiento del aire exterior (WRG)</b>   |           |
| Temperatura exterior  | -4,9 °C   |
| Humedad relativa de aire exterior   | 90 %      |
| Temperatura del retorno   | 22,0 °C   |
| Humedad relativa del retorno  | 50,0 %    |
| Datos referidos a la temperatura del aire exterior  |           |
| Temperatura del aire exterior mínima  | -4,9 °C   |
| Temperatura de impulsión  | 16,3 °C   |
| Humedad relativa de impulsión   | 19 %      |
| Grado de transferencia de temperatura seca según EN 308                                   | 73 %      |
| Factor de recuperación de calor   | 79 %      |
| Potencia térmica  | 40,0 kW   |
| Condensado  | 15,7 kg/h |
| Temperatura de descarga   | 6,0 °C    |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 169 Pa    |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 154 Pa    |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 0,90 kW   |
| Coeficiente de rendimiento  | 32,10     |
| Eficiencia energética   | 71 %      |
| Clase de recuperador según EN 13053/2020  | H2        |
| Máx. porcentaje de fugas  | 0,25 %    |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 81,4 %    |
| <b>en modo de desescarche (ca. 3.5 °C FOL)</b>  |           |
| Temperatura de aire de impulsión  | 16,3 °C   |
| <b>Preenfriamiento del aire exterior (WRG)</b>  |           |
| Temperatura exterior  | 35,6 °C   |
| Humedad relativa de aire exterior   | 27,0 %    |
| Temperatura del retorno   | 24,0 °C   |
| Humedad relativa del retorno  | 40,0 %    |
| Temperatura de impulsión  | 27,3 °C   |
| Humedad relativa de impulsión   | 44 %      |
| Factor de recuperación de calor   | 72 %      |
| Potencia térmica  | 15,7 kW   |
| Condensado  | 0,0 kg/h  |
| Temperatura de descarga   | 32,7 °C   |

No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.



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Intercambiador, Recuperador vertical, Paquete de placas FG AL 09 N 750+500 R 1 AE SC  
Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 10 Nm par de giro / eje de accionamiento 15 x 15 mm  
Bandeja 1608 KGT  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Alumbrado, 230V LED, montado y cableado

(4) Batería de calor

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 3 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/2 Pulgadas - 1 1/2 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 24,6 °C                         |
| Potencia (total)                      | 55,84 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 3,25 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 36 Pa                           |
| Pérdida de carga en el lado del medio | 4,33 kPa                        |
| Velocidad del aire                    | 2,07 m/s                        |
| Contenido de agua                     | 8,2 l                           |
| Densidad del aire                     | 1,2 kg/m³                       |

(5) módulo vacío con bandeja 915 para humectador 37,7 Kg/h

Bandeja en acero inoxidable 1609 KGT salida de condensados a la izquierda  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Mirilla  
Alumbrado, 230V LED, montado y cableado

(6) Batería de frío

|   |                                  |
|---|----------------------------------|
| Tipo de batería                             | W/22/1362/6R/31K/2.6Cu,9.5/Al-L1 |
| Conexión (entrada/salida)                   | DN 40, 1 1/2" - DN 40, 1 1/2"    |
| Temperatura de aire de entrada              | 35,6 °C                          |
| Humedad relativa                            | 27,0 %                           |
| Temperatura de aire de salida               | 12,8 °C                          |
| Humedad relativa                            | 97,2 %                           |
| Potencia (latente)                          | 3,96 kW                          |
| Potencia (sensible)                         | 44,14 kW                         |
| Potencia (total)                            | 48,1 kW                          |
| Pérdida de carga en el lado del aire (seco) | 80 Pa                            |
| Entrada del medio                           | 7 °C                             |
| Salida del medio                            | 12 °C                            |
| Cantidad de líquido                         | 8,27 m³/h                        |
| Pérdida de carga en el lado del medio       | 20,8 kPa                         |
| Velocidad del aire                          | 2,09 m/s                         |
| Contenido de agua                           | 13,9 l                           |
| Densidad del aire                           | 1,2 kg/m³                        |

Rieles



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Bandeja en acero inoxidable 1606 KGT  
Salida de condensados: DN32, 1 1/4 Pulgadas

(7) Módulo vacío 305

(8) Ventilador, Giro libre con motor EC

|  |                        |                                      |
|--|------------------------|--------------------------------------|
| Caudal de aire                               | 5645                   | m³/h                                 |
| Pérdida de carga externa                     | 200                    | Pa                                   |
| Presión interna del ventilador               | 5                      | Pa                                   |
| Pérdida de carga interna                     | 643                    | Pa                                   |
| Pérdida de carga dinámica                    | 49                     | Pa                                   |
| Pérdida de carga total                       | 897                    | Pa                                   |
| Tipo de ventilador                           | VME400-2,50/400EC-2450 |                                      |
| Número de revoluciones del ventilador        | 2295                   | 1/min                                |
| Número de revoluciones máximo del ventilador | 2450                   | 1/min                                |
| Rendimiento total                            | 68,8                   | %                                    |
| Corriente del motor                          | 3,11                   | A                                    |
| Corriente máxima del motor                   | 3,80                   | A                                    |
| Máxima potencia del motor                    | 2,50                   | kW                                   |
| Tensión del motor                            | 3*400                  | V                                    |
| Tensión de mando                             | 7,85                   | V                                    |
| Valor K                                      | 188                    |                                      |
| Clase de eficiencia energética               | corresponde a IE5      |                                      |
| Potencia eléctrica activa Pm                 | 2,04                   | kW                                   |
| Potencia consumida en las condiciones SFPv   | 1,76                   | kW                                   |
| SFP (Potencia específica del ventilador)     | 1,12                   | kW/(m³/s)                            |
|  | 0,312                  | W/(m³/h)                             |
| Tipo   | 2138501                |                                      |
| SFP según EN 16798-3                         | SFP2                   |                                      |
| Clase-P según EN 13053 Pm ref: 2,87 kW       | P1                     |                                      |
| Densidad del aire                            | 1,2                    | kg/m³                                |
| Frecuencia de octava [Hz]                    | 63                     | 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración                     | 42                     | 62 67 71 73 76 74 65 80              |
| Lw(A) lado de impulsión                      | 45                     | 61 69 78 79 81 78 70 85              |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire



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(10) Silenciador tipo 11

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 26 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11  
Colisas del silenciador extraíbles para profundidad de 230 mm

(11) Filtro ISO ePM1 85%

|  |  |              |
|--|--|--------------|
| EN ISO 16890   |  | ISO ePM1 85% |
| Pérdida de carga inicial (limpio)  |  | 112 Pa       |
| Pérdida de carga seleccionada  |  | 162 Pa       |
| Pérdida de carga final   |  | 212 Pa       |
| Energieverbrauch (Eurovent 4/21: -)  |  | 3081 kWh     |
| Superficie del filtro  |  | 13,48 m²     |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |  |              |
| Pérdida de carga   |  | 2 Pa         |

Filtro de bolsa F9 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Retorno

(3) Recuperador de calor de placas de alta eficacia, vertical

Datos técnicos: véase la sección de impulsión

(12) Filtro ISO polvo grueso 60%

|  |  |                |
|--|--|----------------|
| EN ISO 16890   |  | ISO Coarse 60% |
| Pérdida de carga inicial (limpio)  |  | 20 Pa          |
| Pérdida de carga seleccionada  |  | 40 Pa          |
| Pérdida de carga final   |  | 60 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  |  | - kWh          |
| Superficie del filtro  |  | 1,26 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |  |                |
| Pérdida de carga   |  | 2 Pa           |

Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso



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(13) Filtro ISO ePM1 50%

|                                     |              |
|-------------------------------------|--------------|
| EN ISO 16890                        | ISO ePM1 50% |
| Pérdida de carga inicial (limpio)   | 71 Pa        |
| Pérdida de carga seleccionada       | 121 Pa       |
| Pérdida de carga final              | 171 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 13,48 m²     |

Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso

(14) Silenciador tipo 2

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 8 Pa    |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2  
Colisas del silenciador extraíbles para profundidad de 200 mm

(15) Humectador adiabático de agua perdida

|   |   |
|---|---|
| Medio   | HU-CEL  |
| Temperatura de entrada del aire                             | 26 °C   |
| Humedad relativa  | 40 %  |
| Temperatura de salida del aire                              | 17,8 °C   |
| Humedad relativa  | 91 %  |
| Velocidad del aire  | 2,4 m/s   |
| Capacidad de humectación                                    | 21,88 kg/h                                      |
| Pérdida de carga  | 45 Pa   |
| Cantidad de agua a intervalos para la humectación del medio | tres o cuatro veces la capacidad de humectación |
| Eficiencia del humectador                                   | 90 %  |
| Humidificación específica                                   | 3,4 g/kg  |

Mirilla con posibilidad de oscurecimiento  
Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1  
Rieles del KBF en acero inoxidable V2A  
bandeja acero inoxidable 1609 KGT salida derecha  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Puerta de acceso



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(16) Ventilador, Giro libre con motor EC

|  |                        |           |
|--|------------------------|-----------|
| Caudal de aire   | 5362                   | m³/h      |
| Pérdida de carga externa   | 175                    | Pa        |
| Presión interna del ventilador   | 8                      | Pa        |
| Pérdida de carga interna   | 372                    | Pa        |
| Pérdida de carga dinámica  | 79                     | Pa        |
| Pérdida de carga total   | 634                    | Pa        |
| Tipo de ventilador   | VME355-1,90/400EC-2870 |           |
| Número de revoluciones del ventilador  | 2689                   | 1/min     |
| Número de revoluciones máximo del ventilador   | 2870                   | 1/min     |
| Rendimiento total  | 65,8                   | %         |
| Corriente del motor  | 2,25                   | A         |
| Corriente máxima del motor   | 3,00                   | A         |
| Máxima potencia del motor  | 1,90                   | kW        |
| Tensión del motor  | 3*400                  | V         |
| Tensión de mando   | 7,75                   | V         |
| Valor K  | 148                    |           |
| Clase de eficiencia energética   | corresponde a IE5      |           |
| Potencia eléctrica activa Pm   | 1,44                   | kW        |
| Potencia consumida en las condiciones SFPv   | 1,31                   | kW        |
| SFP (Potencia específica del ventilador)   | 0,88                   | kW/(m³/s) |
|  | 0,244                  | W/(m³/h)  |
| Tipo   | 2138499                |           |
| SFP según EN 16798-3   | SFP0                   |           |
| Clase-P según EN 13053 Pm ref: 1,84 kW   | P1                     |           |
| Densidad del aire  | 1,2                    | kg/m³     |
| Frecuencia de octava [Hz]  | 63                     | 125       |
|  | 250                    | 500       |
|  | 1000                   | 2000      |
|  | 4000                   | 8000      |
|  | Suma                   |           |
| Lw(A) lado de aspiración   | 35                     | 51        |
|  | 67                     | 71        |
|  | 71                     | 74        |
|  | 78                     | 72        |
|  | 81                     |           |
| Lw(A) lado de impulsión  | 38                     | 53        |
|  | 68                     | 73        |
|  | 79                     | 80        |
|  | 82                     | 75        |
|  | 86                     |           |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |                        |           |
| Pérdida de carga   | 2                      | Pa        |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Resumen de accesorios

- 6 Alumbrado, 230V LED, montado y cableado
- 6 Mirilla
- 1 Mirilla con posibilidad de oscurecimiento
- 1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.
- 2 Puerta de acceso
- 6 Puerta de acceso
- 2 Toma de presión conducida hasta el exterior del equipo



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## Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|  |   |
|--|---|
| Tipo de equipo   | Unidad de ventilación bidireccional (UVB) |
| Sistema de recuperación  | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.  | 74 / 40 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.                                      | 169 / 154 Pa                              |
| DeltaPs,int  | 437 Pa                                    |
| DeltaPs, adicional   | 387 Pa                                    |
| Eficiencia recuperador/objetivo                                    | 73 / 73 %                                 |
| Vent. eta opt. EU:327/2011   | (8) 69,1% (16) 68,8%                      |
| Grado de eficiencia N  | (8) 75,5 / (16) 76,4                      |
| Vent. eta stat. eingebaut  | (8) 64,7% (16) 56,8%                      |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 717 / 871 W/(m³/s)                        |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1,1 %                                     |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,68 %                                    |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.

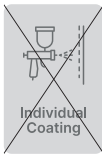
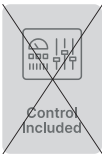


|                  |            |
|------------------|------------|
| Número de oferta | Fecha      |
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|                                   |   |   |
|-----------------------------------|---|---|
| <div>Cliente</div> <div>GOC</div> | <div>Proyecto / Referencia</div> <div>CL-0207 sillones hospital de dia este</div> | <div>LV-Pos./Adjunto</div>                  |
| <div>Su persona de contacto</div> | <div>Su referencia</div>  | <div>Nuestro responsable del proyecto</div> |

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno  |
| Tamaño (Imp/Ret)                           | AHU TE EC 110  |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple  |
| Ubicación                                  | para interior  |
| Variante                                   | Estándar   |
| Tratamiento de la superficie de la carcasa | galvanizado  |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Deshumectar   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas  |



|   | Impulsión   | Retorno             |
|---|---|---------------------|
| Caudal de aire                                      | 5936 m³/h 1,65 m³/s   | 5939 m³/h 1,65 m³/s |
| Presión / pérdida de carga externa                  | 200 Pa  | 175 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,77 m/s  | 1,77 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,8 m/s (V2)  | 1,8 m/s (V2)        |
| Dimensiones (Largo,Ancho,Altura)                    | 6915 x 1627 x 1424 mm   |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 1913 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 3,8 A + Retorno: 3,8 A = 7,6 A   |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 2,5 KW + Retorno: 2,5 KW = 5 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 58,72 kW  |                     |
| Potencia de frío necesaria (BAF)                    | 49,14 kW  |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A   |                     |
| Eficiencia energética RLT                           | A+  |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.



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Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890   | ISO Coarse 60% |
|--|----------------|
| Pérdida de carga inicial (limpio)  | 22 Pa          |
| Pérdida de carga seleccionada  | 44 Pa          |
| Pérdida de carga final   | 66 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 1,26 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 2 Pa           |

Filtro sin marco G4

Rieles para filtro de manta, Rieles de filtro de manta

Puerta de acceso

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 78 Pa        |
| Pérdida de carga seleccionada       | 128 Pa       |
| Pérdida de carga final              | 178 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 13,48 m²     |



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Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Puerta de acceso

**(3) Recuperador de calor de placas de alta eficacia, vertical****Precalentamiento del aire exterior (WRG)**

|   |           |
|---|-----------|
| Temperatura exterior  | -4,9 °C   |
| Humedad relativa de aire exterior   | 90 %      |
| Temperatura del retorno   | 22,0 °C   |
| Humedad relativa del retorno  | 50,0 %    |
| Datos referidos a la temperatura del aire exterior  |           |
| Temperatura del aire exterior mínima  | -4,9 °C   |
| Temperatura de impulsión  | 16,5 °C   |
| Humedad relativa de impulsión   | 19 %      |
| Grado de transferencia de temperatura seca según EN 308                                   | 73 %      |
| Factor de recuperación de calor   | 79 %      |
| Potencia térmica  | 42,4 kW   |
| Condensado  | 15,9 kg/h |
| Temperatura de descarga   | 6,5 °C    |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 184 Pa    |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 184 Pa    |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 1,00 kW   |
| Coeficiente de rendimiento  | 29,40     |
| Eficiencia energética   | 71 %      |
| Clase de recuperador según EN 13053/2020  | H2        |
| Máx. porcentaje de fugas  | 0,25 %    |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 81,1 %    |

**en modo de desescarche (ca. 3.5 °C FOL)**

|                                  |         |
|----------------------------------|---------|
| Temperatura de aire de impulsión | 16,5 °C |
|----------------------------------|---------|

**Preenfriamiento del aire exterior (WRG)**

|                                   |          |
|-----------------------------------|----------|
| Temperatura exterior              | 35,6 °C  |
| Humedad relativa de aire exterior | 27,0 %   |
| Temperatura del retorno           | 24,0 °C  |
| Humedad relativa del retorno      | 40,0 %   |
| Temperatura de impulsión          | 27,1 °C  |
| Humedad relativa de impulsión     | 44 %     |
| Factor de recuperación de calor   | 73 %     |
| Potencia térmica                  | 16,9 kW  |
| Condensado                        | 0,0 kg/h |
| Temperatura de descarga           | 32,5 °C  |

No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.



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Intercambiador, Recuperador vertical, Paquete de placas FG AL 09 N 750+500 R 1 AE SC  
Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 10 Nm par de giro / eje de accionamiento 15 x 15 mm  
Bandeja 1608 KGT  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Alumbrado, 230V LED, montado y cableado

(4) Batería de calor

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 3 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/2 Pulgadas - 1 1/2 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 24,6 °C                         |
| Potencia (total)                      | 58,72 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 3,42 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 40 Pa                           |
| Pérdida de carga en el lado del medio | 4,73 kPa                        |
| Velocidad del aire                    | 2,17 m/s                        |
| Contenido de agua                     | 8,2 l                           |
| Densidad del aire                     | 1,2 kg/m³                       |

(5) módulo vacío con bandeja 915 para humectador 39,8 kg/h

Bandeja en acero inoxidable 1609 KGT salida de condensados a la izquierda  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Mirilla  
Alumbrado, 230V LED, montado y cableado

(7) Batería de frío

|   |                                  |
|---|----------------------------------|
| Tipo de batería                             | W/22/1362/6R/32K/3.0Cu,9.5/Al-L1 |
| Conexión (entrada/salida)                   | DN 40, 1 1/2" - DN 40, 1 1/2"    |
| Temperatura de aire de entrada              | 35,6 °C                          |
| Humedad relativa                            | 28,2 %                           |
| Temperatura de aire de salida               | 13,8 °C                          |
| Humedad relativa                            | 94,4 %                           |
| Potencia (latente)                          | 4,72 kW                          |
| Potencia (sensible)                         | 44,42 kW                         |
| Potencia (total)                            | 49,14 kW                         |
| Pérdida de carga en el lado del aire (seco) | 76 Pa                            |
| Entrada del medio                           | 7 °C                             |
| Salida del medio                            | 12 °C                            |
| Cantidad de líquido                         | 8,45 m³/h                        |
| Pérdida de carga en el lado del medio       | 19,9 kPa                         |
| Velocidad del aire                          | 2,2 m/s                          |
| Contenido de agua                           | 13,9 l                           |
| Densidad del aire                           | 1,2 kg/m³                        |

Rieles de acero inoxidable V2A



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Bandeja en acero inoxidable 1606 KGT  
Salida de condensados: DN32, 1 1/4 Pulgadas

(8) Módulo vacío 305

(9) Ventilador, Giro libre con motor EC

|  |                        |                                      |
|--|------------------------|--------------------------------------|
| Caudal de aire                               | 5936                   | m³/h                                 |
| Pérdida de carga externa                     | 200                    | Pa                                   |
| Presión interna del ventilador               | 5                      | Pa                                   |
| Pérdida de carga interna                     | 672                    | Pa                                   |
| Pérdida de carga dinámica                    | 54                     | Pa                                   |
| Pérdida de carga total                       | 931                    | Pa                                   |
| Tipo de ventilador                           | VME400-2,50/400EC-2450 |                                      |
| Número de revoluciones del ventilador        | 2361                   | 1/min                                |
| Número de revoluciones máximo del ventilador | 2450                   | 1/min                                |
| Rendimiento total                            | 69,6                   | %                                    |
| Corriente del motor                          | 3,35                   | A                                    |
| Corriente máxima del motor                   | 3,80                   | A                                    |
| Máxima potencia del motor                    | 2,50                   | kW                                   |
| Tensión del motor                            | 3*400                  | V                                    |
| Tensión de mando                             | 8,39                   | V                                    |
| Valor K                                      | 188                    |                                      |
| Clase de eficiencia energética               | corresponde a IE5      |                                      |
| Potencia eléctrica activa Pm                 | 2,21                   | kW                                   |
| Potencia consumida en las condiciones SFPv   | 1,92                   | kW                                   |
| SFP (Potencia específica del ventilador)     | 1,16                   | kW/(m³/s)                            |
|  | 0,323                  | W/(m³/h)                             |
| Tipo   | 2138501                |                                      |
| SFP según EN 16798-3                         | SFP2                   |                                      |
| Clase-P según EN 13053 Pm ref: 3,1 kW        | P1                     |                                      |
| Densidad del aire                            | 1,2                    | kg/m³                                |
| Frecuencia de octava [Hz]                    | 63                     | 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración                     | 42                     | 60 68 71 73 77 76 67 81              |
| Lw(A) lado de impulsión                      | 46                     | 60 70 78 79 82 79 71 86              |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire



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(10) Silenciador tipo 11

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 29 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11  
Colisas del silenciador extraíbles para profundidad de 230 mm

(11) Filtro ISO ePM1 85%

|  |  |              |
|--|--|--------------|
| EN ISO 16890   |  | ISO ePM1 85% |
| Pérdida de carga inicial (limpio)  |  | 117 Pa       |
| Pérdida de carga seleccionada  |  | 167 Pa       |
| Pérdida de carga final   |  | 217 Pa       |
| Energieverbrauch (Eurovent 4/21: -)  |  | 3081 kWh     |
| Superficie del filtro  |  | 13,48 m²     |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |  |              |
| Pérdida de carga   |  | 2 Pa         |

Filtro de bolsa F9 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Retorno

(3) Recuperador de calor de placas de alta eficacia, vertical

Datos técnicos: véase la sección de impulsión

(12) Filtro ISO polvo grueso 60%

|  |  |                |
|--|--|----------------|
| EN ISO 16890   |  | ISO Coarse 60% |
| Pérdida de carga inicial (limpio)  |  | 22 Pa          |
| Pérdida de carga seleccionada  |  | 44 Pa          |
| Pérdida de carga final   |  | 66 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  |  | - kWh          |
| Superficie del filtro  |  | 1,26 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |  |                |
| Pérdida de carga   |  | 2 Pa           |

Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso



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(13) Filtro ISO ePM1 50%

|                                     |              |
|-------------------------------------|--------------|
| EN ISO 16890                        | ISO ePM1 50% |
| Pérdida de carga inicial (limpio)   | 78 Pa        |
| Pérdida de carga seleccionada       | 128 Pa       |
| Pérdida de carga final              | 178 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 13,48 m²     |

Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso

(14) Silenciador tipo 2

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 10 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2  
Colisas del silenciador extraíbles para profundidad de 200 mm

(15) Humectador adiabático de agua perdida

|   |   |
|---|---|
| Medio   | HU-CEL  |
| Temperatura de entrada del aire                             | 26 °C   |
| Humedad relativa  | 40 %  |
| Temperatura de salida del aire                              | 17,9 °C   |
| Humedad relativa  | 91 %  |
| Velocidad del aire  | 2,6 m/s   |
| Capacidad de humectación                                    | 24,23 kg/h                                      |
| Pérdida de carga  | 55 Pa   |
| Cantidad de agua a intervalos para la humectación del medio | tres o cuatro veces la capacidad de humectación |
| Eficiencia del humectador                                   | 89 %  |
| Humidificación específica                                   | 3,4 g/kg  |

Mirilla con posibilidad de oscurecimiento  
Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1  
Rieles del KBF en acero inoxidable V2A  
bandeja acero inoxidable 1609 KGT salida derecha  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Puerta de acceso



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(16) Ventilador, Giro libre con motor EC

|  |                        |                                      |
|--|------------------------|--------------------------------------|
| Caudal de aire   | 5939                   | m³/h                                 |
| Pérdida de carga externa   | 175                    | Pa                                   |
| Presión interna del ventilador   | 5                      | Pa                                   |
| Pérdida de carga interna   | 425                    | Pa                                   |
| Pérdida de carga dinámica  | 54                     | Pa                                   |
| Pérdida de carga total   | 659                    | Pa                                   |
| Tipo de ventilador   | VME400-2,50/400EC-2450 |                                      |
| Número de revoluciones del ventilador  | 2116                   | 1/min                                |
| Número de revoluciones máximo del ventilador   | 2450                   | 1/min                                |
| Rendimiento total  | 69,5                   | %                                    |
| Corriente del motor  | 2,41                   | A                                    |
| Corriente máxima del motor   | 3,80                   | A                                    |
| Máxima potencia del motor  | 2,50                   | kW                                   |
| Tensión del motor  | 3*400                  | V                                    |
| Tensión de mando   | 7,1                    | V                                    |
| Valor K  | 188                    |                                      |
| Clase de eficiencia energética   | corresponde a IE5      |                                      |
| Potencia eléctrica activa Pm   | 1,56                   | kW                                   |
| Potencia consumida en las condiciones SFPv   | 1,41                   | kW                                   |
| SFP (Potencia específica del ventilador)   | 0,86                   | kW/(m³/s)                            |
|  | 0,238                  | W/(m³/h)                             |
| Tipo   | 2138501                |                                      |
| SFP según EN 16798-3   | SFP0                   |                                      |
| Clase-P según EN 13053 Pm ref: 2,2 kW  | P1                     |                                      |
| Densidad del aire  | 1,2                    | kg/m³                                |
| Frecuencia de octava [Hz]  | 63                     | 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración   | 38                     | 55 63 68 73 70 75 64 79              |
| Lw(A) lado de impulsión  | 41                     | 56 63 72 80 76 78 68 84              |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |                        |                                      |
| Pérdida de carga   | 2                      | Pa                                   |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Resumen de accesorios

- 6 Alumbrado, 230V LED, montado y cableado
- 6 Mirilla
- 1 Mirilla con posibilidad de oscurecimiento
- 1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.
- 2 Puerta de acceso
- 6 Puerta de acceso
- 2 Toma de presión conducida hasta el exterior del equipo



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## Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|  |   |
|--|---|
| Tipo de equipo   | Unidad de ventilación bidireccional (UVB) |
| Sistema de recuperación  | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.  | 78 / 45 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.                                      | 184 / 184 Pa                              |
| DeltaPs,int  | 491 Pa                                    |
| DeltaPs, adicional   | 412 Pa                                    |
| Eficiencia recuperador/objetivo                                    | 73 / 73 %                                 |
| Vent. eta opt. EU:327/2011   | (9) 69,1% (16) 69,1%                      |
| Grado de eficiencia N  | (9) 75,5 / (16) 75,5                      |
| Vent. eta stat. eingebaut  | (9) 65,2% (16) 63,3%                      |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 764 / 853 W/(m³/s)                        |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1,07 %                                    |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,66 %                                    |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



Ficha técnica

CL-0206 camas hospital de dia



Número de oferta

JP-49140 / 03

Fecha

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Cliente

GOC

Proyecto / Referencia

CL-0206 camas hospital de dia

LV-Pos./Adjunto

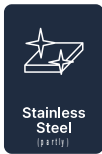
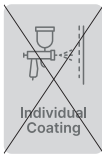
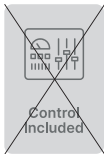
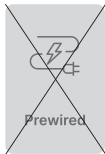
Su persona de contacto

Su referencia

Nuestro responsable del proyecto

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno  |
| Tamaño (Imp/Ret)                           | AHU TE EC 96   |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple  |
| Ubicación                                  | para interior  |
| Variante                                   | Estándar   |
| Tratamiento de la superficie de la carcasa | galvanizado  |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Deshumectar   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas  |



|   | Impulsión   | Retorno             |
|---|---|---------------------|
| Caudal de aire                                      | 5026 m³/h 1,40 m³/s   | 4774 m³/h 1,33 m³/s |
| Presión / pérdida de carga externa                  | 200 Pa  | 175 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,67 m/s  | 1,58 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,7 m/s (V2)  | 1,6 m/s (V1)        |
| Dimensiones (Largo,Ancho,Altura)                    | 7322 x 1017 x 2034 mm   |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 1701 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 3,8 A + Retorno: 2,7 A = 6,5 A   |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 2,5 KW + Retorno: 1,74 KW = 4,24 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 48,88 kW  |                     |
| Potencia de frío necesaria (BAF)                    | 43,74 kW  |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A   |                     |
| Eficiencia energética RLT                           | A+  |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.



Ficha técnica

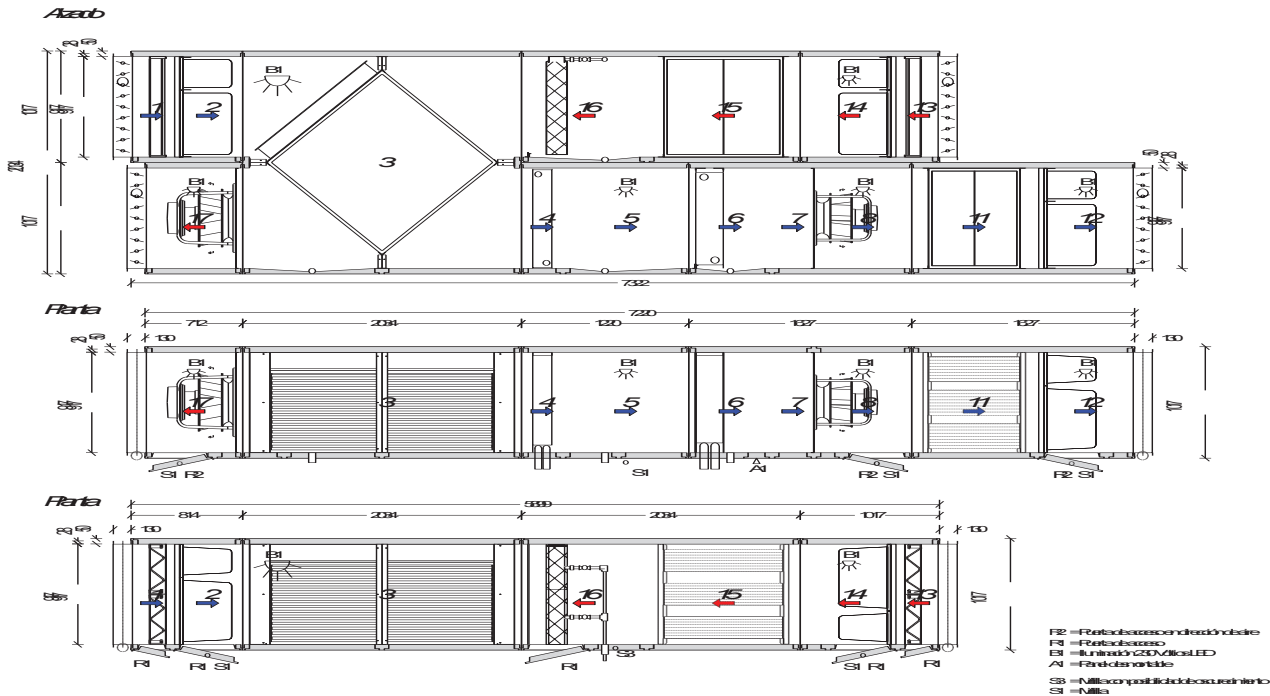
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Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890   | ISO Coarse 60% |
|--|----------------|
| Pérdida de carga inicial (limpio)  | 21 Pa          |
| Pérdida de carga seleccionada  | 42 Pa          |
| Pérdida de carga final   | 63 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 1,11 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 2 Pa           |

Acero inoxidable V2A suelo techo lateral  
Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 74 Pa        |
| Pérdida de carga seleccionada       | 124 Pa       |
| Pérdida de carga final              | 174 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 12,14 m²     |



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Acero inoxidable V2A suelo techo lateral

Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Puerta de acceso

**(3) Recuperador de calor de placas de alta eficacia, vertical****Precalentamiento del aire exterior (WRG)**

|   |           |
|---|-----------|
| Temperatura exterior  | -4,9 °C   |
| Humedad relativa de aire exterior   | 90 %      |
| Temperatura del retorno   | 22,0 °C   |
| Humedad relativa del retorno  | 50,0 %    |
| Datos referidos a la temperatura del aire exterior  |           |
| Temperatura del aire exterior mínima  | -4,9 °C   |
| Temperatura de impulsión  | 16,5 °C   |
| Humedad relativa de impulsión   | 20 %      |
| Grado de transferencia de temperatura seca según EN 308                                   | 74 %      |
| Factor de recuperación de calor   | 80 %      |
| Potencia térmica  | 36,1 kW   |
| Condensado  | 13,8 kg/h |
| Temperatura de descarga   | 5,7 °C    |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 198 Pa    |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 180 Pa    |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 0,90 kW   |
| Coeficiente de rendimiento  | 27,60     |
| Eficiencia energética   | 71 %      |
| Clase de recuperador según EN 13053/2020  | H2        |
| Máx. porcentaje de fugas  | 0,25 %    |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 81,7 %    |

**en modo de desescarche (ca. 3.5 °C FOL)**

|  |          |
|--|----------|
| Temperatura de aire de impulsión               | 16,5 °C  |
| <b>Preenfriamiento del aire exterior (WRG)</b> |          |
| Temperatura exterior                           | 35,6 °C  |
| Humedad relativa de aire exterior              | 27,0 %   |
| Temperatura del retorno                        | 24,0 °C  |
| Humedad relativa del retorno                   | 40,0 %   |
| Temperatura de impulsión                       | 27,2 °C  |
| Humedad relativa de impulsión                  | 44 %     |
| Factor de recuperación de calor                | 72 %     |
| Potencia térmica                               | 14,1 kW  |
| Condensado                                     | 0,0 kg/h |
| Temperatura de descarga                        | 32,8 °C  |



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Acero inoxidable V2A suelo techo lateral

No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

Intercambiador, Recuperador vertical, Paquete de placas BG AL 12 N 750 N 1 AE SC

Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm

Bandeja de condensado, Bandeja con salida de condensados, Bandeja 1010

Salida de condensados: DN32, 1 1/4 Pulgadas

Alumbrado, 230V LED, montado y cableado

**(4) Batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 3 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/2 Pulgadas - 1 1/2 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 24,1 °C                         |
| Potencia (total)                      | 48,88 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 2,84 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 24 Pa                           |
| Pérdida de carga en el lado del medio | 3,53 kPa                        |
| Velocidad del aire                    | 2,13 m/s                        |
| Contenido de agua                     | 7,09 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

Acero inoxidable V2A suelo techo lateral

**(5) módulo vacío con bandeja 915**

Acero inoxidable V2A suelo techo lateral

Bandeja en acero inoxidable 1009 KGT salida de condensados a la izquierda

Salida de condensados: DN32, 1 1/4 Pulgadas

Mirilla

Alumbrado, 230V LED, montado y cableado

**(6) Batería de frío**

|   |                                |
|---|--------------------------------|
| Tipo de batería                             | W/28/742/6R/21K/2.7Cu,12/Al-L1 |
| Conexión (entrada/salida)                   | DN 40, 1 1/2" - DN 40, 1 1/2"  |
| Temperatura de aire de entrada              | 36,5 °C                        |
| Humedad relativa                            | 27,0 %                         |
| Temperatura de aire de salida               | 13,7 °C                        |
| Humedad relativa                            | 94,7 %                         |
| Potencia (latente)                          | 4,39 kW                        |
| Potencia (sensible)                         | 39,35 kW                       |
| Potencia (total)                            | 43,74 kW                       |
| Pérdida de carga en el lado del aire (seco) | 78 Pa                          |
| Entrada del medio                           | 7 °C                           |
| Salida del medio                            | 12 °C                          |
| Cantidad de líquido                         | 7,52 m³/h                      |



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|                                       |           |
|---------------------------------------|-----------|
| Pérdida de carga en el lado del medio | 19,7 kPa  |
| Velocidad del aire                    | 2,24 m/s  |
| Contenido de agua                     | 16,8 l    |
| Densidad del aire                     | 1,2 kg/m³ |

Acero inoxidable V2A suelo techo lateral

Rieles

Bandeja en acero inoxidable 1006 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

**(7) Módulo vacío 305**

Acero inoxidable V2A suelo techo lateral

**(8) Ventilador, Giro libre con motor EC**

|  |   |
|--|---|
| Caudal de aire                               | 5026 m³/h                               |
| Pérdida de carga externa                     | 200 Pa                                  |
| Presión interna del ventilador               | 4 Pa                                    |
| Pérdida de carga interna                     | 656 Pa                                  |
| Pérdida de carga dinámica                    | 39 Pa                                   |
| Pérdida de carga total                       | 899 Pa                                  |
| Tipo de ventilador                           | VME400-2,50/400EC-2450                  |
| Número de revoluciones del ventilador        | 2221 1/min                              |
| Número de revoluciones máximo del ventilador | 2450 1/min                              |
| Rendimiento total                            | 66,3 %                                  |
| Corriente del motor                          | 2,89 A                                  |
| Corriente máxima del motor                   | 3,80 A                                  |
| Máxima potencia del motor                    | 2,50 kW                                 |
| Tensión del motor                            | 3*400 V                                 |
| Tensión de mando                             | 7,57 V                                  |
| Valor K                                      | 188                                     |
| Clase de eficiencia energética               | corresponde a IE5                       |
| <b>Potencia eléctrica activa Pm</b>          | <b>1,89 kW</b>                          |
| Potencia consumida en las condiciones SFPv   | 1,60 kW                                 |
| SFP (Potencia específica del ventilador)     | 1,15 kW/(m³/s)                          |
|  | 0,319 W/(m³/h)                          |
| Tipo   | 2138501                                 |
| SFP según EN 16798-3                         | SFP2                                    |
| Clase-P según EN 13053 Pm ref: 2,62 kW       | P1                                      |
| Densidad del aire                            | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]                    | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración                     | 42 67 68 70 73 74 71 64 79              |
| Lw(A) lado de impulsión                      | 45 65 68 79 79 79 76 69 85              |

Acero inoxidable V2A suelo techo lateral

Toma de presión conducida hasta el exterior del equipo

Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5

Mirilla

Alumbrado, 230V LED, montado y cableado



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Puerta de acceso, Puerta de acceso en dirección de aire

**(11) Silenciador tipo 11**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 26 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

Acero inoxidable V2A suelo techo lateral

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11

Colisas del silenciador extraíbles para profundidad de 230 mm

**(12) Filtro ISO ePM1 85%**

|  |                      |
|--|----------------------|
| EN ISO 16890   | ISO ePM1 85%         |
| Pérdida de carga inicial (limpio)  | 110 Pa               |
| Pérdida de carga seleccionada  | 160 Pa               |
| Pérdida de carga final   | 210 Pa               |
| Energieverbrauch (Eurovent 4/21: -)  | 3081 kWh             |
| Superficie del filtro  | 12,14 m <sup>2</sup> |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                      |
| Pérdida de carga   | 2 Pa                 |

Acero inoxidable V2A suelo techo lateral

Filtro de bolsa F9 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire

**Retorno****(3) Recuperador de calor de placas de alta eficacia, vertical**

Datos técnicos: véase la sección de impulsión

**(13) Filtro ISO polvo grueso 60%**

|  |                     |
|--|---------------------|
| EN ISO 16890   | ISO Coarse 60%      |
| Pérdida de carga inicial (limpio)  | 20 Pa               |
| Pérdida de carga seleccionada  | 40 Pa               |
| Pérdida de carga final   | 60 Pa               |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh               |
| Superficie del filtro  | 1,11 m <sup>2</sup> |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                     |
| Pérdida de carga   | 2 Pa                |

Acero inoxidable V2A suelo techo lateral

Filtro sin marco G4



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Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso

(14) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 70 Pa        |
| Pérdida de carga seleccionada       | 120 Pa       |
| Pérdida de carga final              | 170 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 12,14 m²     |

Acero inoxidable V2A suelo techo lateral  
Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, acero inoxidable, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso

(15) Silenciador tipo 2

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 8 Pa    |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Acero inoxidable V2A suelo techo lateral  
Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2  
Colisas del silenciador extraíbles para profundidad de 200 mm

(16) Humectador adiabático de agua perdida

|   |   |
|---|---|
| Medio   | HU-CEL  |
| Temperatura de entrada del aire                             | 26 °C   |
| Humedad relativa  | 40 %  |
| Temperatura de salida del aire                              | 17,8 °C   |
| Humedad relativa  | 91 %  |
| Velocidad del aire  | 2,1 m/s   |
| Capacidad de humectación                                    | 19,48 kg/h                                      |
| Pérdida de carga  | 40 Pa   |
| Cantidad de agua a intervalos para la humectación del medio | tres o cuatro veces la capacidad de humectación |
| Eficiencia del humectador                                   | 90 %  |
| Humidificación específica                                   | 3,4 g/kg  |

Acero inoxidable V2A suelo techo lateral  
Mirilla con posibilidad de oscurecimiento  
Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1  
Rieles del KBF en acero inoxidable V2A  
bandeja acero inoxidable 1009 KGT salida derecha  
Salida de condensados: DN32, 1 1/4 Pulgadas



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Puerta de acceso

(17) Ventilador, Giro libre con motor EC

|  |                        |                                      |
|--|------------------------|--------------------------------------|
| Caudal de aire   | 4774                   | m³/h                                 |
| Pérdida de carga externa   | 175                    | Pa                                   |
| Presión interna del ventilador   | 8                      | Pa                                   |
| Pérdida de carga interna   | 392                    | Pa                                   |
| Pérdida de carga dinámica  | 22                     | Pa                                   |
| Pérdida de carga total   | 597                    | Pa                                   |
| Tipo de ventilador   | VME450-1,74/400EC-1790 |                                      |
| Número de revoluciones del ventilador  | 1563                   | 1/min                                |
| Número de revoluciones máximo del ventilador   | 1790                   | 1/min                                |
| Rendimiento total  | 67,1                   | %                                    |
| Corriente del motor  | 1,87                   | A                                    |
| Corriente máxima del motor   | 2,70                   | A                                    |
| Máxima potencia del motor  | 1,74                   | kW                                   |
| Tensión del motor  | 3*400                  | V                                    |
| Tensión de mando   | 7,63                   | V                                    |
| Valor K  | 240                    |                                      |
| Clase de eficiencia energética   | corresponde a IE5      |                                      |
| Potencia eléctrica activa Pm   | 1,18                   | kW                                   |
| Potencia consumida en las condiciones SFPv   | 1,04                   | kW                                   |
| SFP (Potencia específica del ventilador)   | 0,78                   | kW/(m³/s)                            |
|  | 0,217                  | W/(m³/h)                             |
| Tipo   | 2138503                |                                      |
| SFP según EN 16798-3   | SFP0                   |                                      |
| Clase-P según EN 13053 Pm ref: 1,71 kW   | P1                     |                                      |
| Densidad del aire  | 1,2                    | kg/m³                                |
| Frecuencia de octava [Hz]  | 63                     | 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración   | 38                     | 57 62 65 68 68 66 57 73              |
| Lw(A) lado de impulsión  | 40                     | 59 62 71 75 73 70 62 79              |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                        |                                      |
| Pérdida de carga   | 2                      | Pa                                   |

Acero inoxidable V2A suelo techo lateral  
Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Resumen de accesorios

- Acero inoxidable V2A suelo techo lateral
- 6 Alumbrado, 230V LED, montado y cableado
- 6 Mirilla
- 1 Mirilla con posibilidad de oscurecimiento



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- 1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.
- 2 Puerta de acceso
- 6 Puerta de acceso
- 2 Toma de presión conducida hasta el exterior del equipo

## Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|  |   |
|--|---|
| Tipo de equipo   | Unidad de ventilación bidireccional (UVB) |
| Sistema de recuperación  | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.  | 74 / 40 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.                                      | 198 / 180 Pa                              |
| DeltaPs,int  | 492 Pa                                    |
| DeltaPs, adicional   | 365 Pa                                    |
| Eficiencia recuperador/objetivo                                    | 74 / 73 %                                 |
| Vent. eta opt. EU:327/2011   | (8) 69,1% (17) 69,2%                      |
| Grado de eficiencia N  | (8) 75,5 / (17) 77,2                      |
| Vent. eta stat. eingebaut  | (8) 63,1% (17) 63,7%                      |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 776 / 926 W/(m³/s)                        |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1,11 %                                    |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,69 %                                    |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



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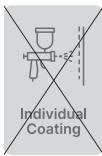
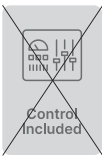
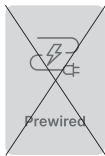
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|                        |                       |                                  |
|------------------------|-----------------------|----------------------------------|
| Cliente                | Proyecto / Referencia | LV-Pos./Adjunto                  |
| GOC                    | CL-0205 ADMINSTRACION |                                  |
| Su persona de contacto | Su referencia         | Nuestro responsable del proyecto |

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno                            |
| Tamaño (Imp/Ret)                           | AHU TE EC 43                                   |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple                              |
| Ubicación                                  | para interior                                  |
| Variante                                   | Estándar                                       |
| Tratamiento de la superficie de la carcasa | galvanizado                                    |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas                          |

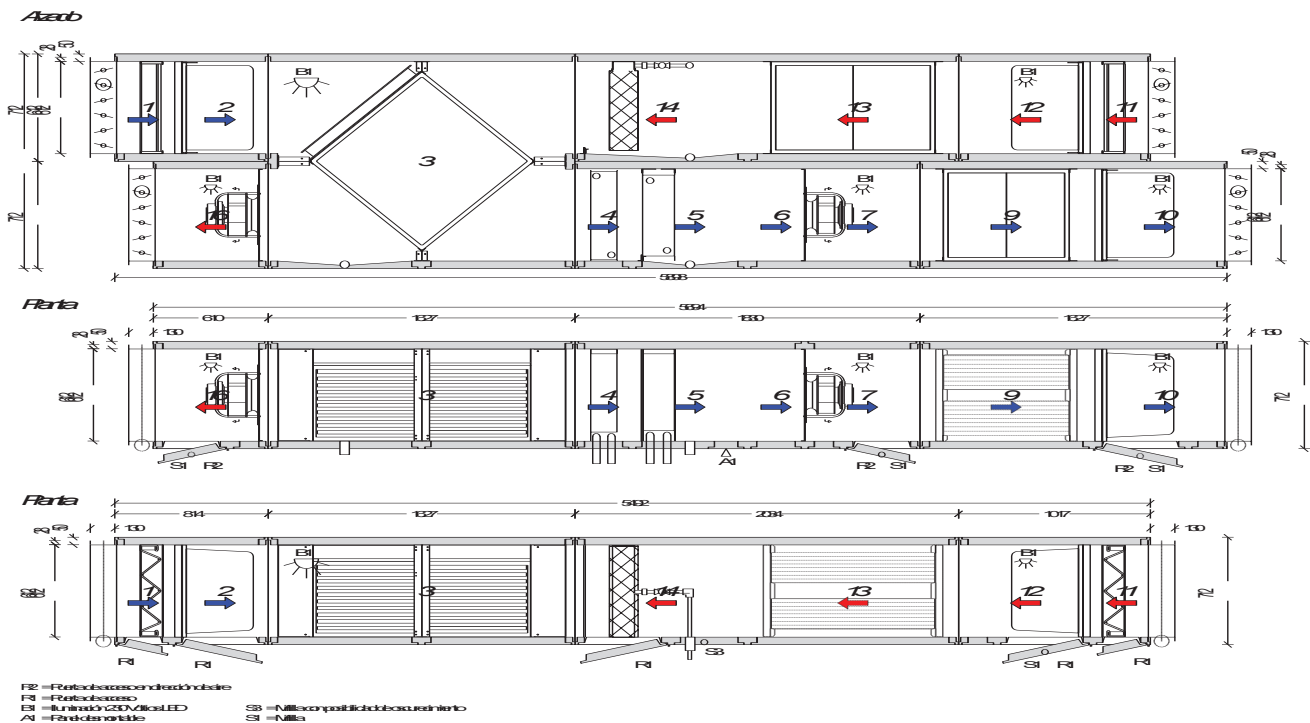


|   |   |                     |
|---|---|---------------------|
|   | Impulsión   | Retorno             |
| Caudal de aire                                      | 2160 m³/h 0,60 m³/s   | 2052 m³/h 0,57 m³/s |
| Presión / pérdida de carga externa                  | 300 Pa  | 300 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,61 m/s  | 1,53 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,6 m/s (V1)  | 1,5 m/s (V1)        |
| Dimensiones (Largo,Ancho,Altura)                    | 5898 x 712 x 1424 mm  |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 984 kg  |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 1,8 A + Retorno: 1,6 A = 3,4 A   |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 1,18 KW + Retorno: 1,05 KW = 2,23 KW   |                     |
| Potencia de calor necesaria (BAC)                   | 19,48 kW  |                     |
| Potencia de frío necesaria (BAF)                    | 14,08 kW  |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A+  |                     |
| Eficiencia energética RLT                           | A+  |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.





Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890   | ISO Coarse 60% |
|--|----------------|
| Pérdida de carga inicial (limpio)  | 20 Pa          |
| Pérdida de carga seleccionada  | 40 Pa          |
| Pérdida de carga final   | 60 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 0,51 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 612 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 2 Pa           |

Filtro sin marco G4  
 Rieles para filtro de manta, Rieles de filtro de manta  
 Puerta de acceso

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 71 Pa        |
| Pérdida de carga seleccionada       | 121 Pa       |
| Pérdida de carga final              | 171 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 5,39 m²      |



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Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Puerta de acceso

**(3) Recuperador de calor de placas de alta eficacia, vertical**

|   |          |
|---|----------|
| <b>Precalentamiento del aire exterior (WRG)</b>   |          |
| Temperatura exterior  | -4,9 °C  |
| Humedad relativa de aire exterior   | 90 %     |
| Temperatura del retorno   | 22,0 °C  |
| Humedad relativa del retorno  | 50,0 %   |
| Datos referidos a la temperatura del aire exterior  |          |
| Temperatura del aire exterior mínima  | -4,9 °C  |
| Temperatura de impulsión  | 17,2 °C  |
| Humedad relativa de impulsión   | 19 %     |
| Grado de transferencia de temperatura seca según EN 308                                   | 76 %     |
| Factor de recuperación de calor   | 82 %     |
| Potencia térmica  | 16,0 kW  |
| Condensado  | 6,2 kg/h |
| Temperatura de descarga   | 5,3 °C   |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 199 Pa   |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 181 Pa   |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 0,40 kW  |
| Coeficiente de rendimiento  | 28,30    |
| Eficiencia energética   | 73 %     |
| Clase de recuperador según EN 13053/2020  | H2       |
| Máx. porcentaje de fugas  | 0,25 %   |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 84 %     |
| <b>en modo de desescarche (ca. 3.5 °C FOL)</b>  |          |
| Temperatura de aire de impulsión  | 17,2 °C  |
| <b>Preenfriamiento del aire exterior (WRG)</b>  |          |
| Temperatura exterior  | 35,6 °C  |
| Humedad relativa de aire exterior   | 27,0 %   |
| Temperatura del retorno   | 24,0 °C  |
| Humedad relativa del retorno  | 40,0 %   |
| Temperatura de impulsión  | 27,0 °C  |
| Humedad relativa de impulsión   | 44 %     |
| Factor de recuperación de calor   | 74 %     |
| Potencia térmica  | 6,2 kW   |
| Condensado  | 0,0 kg/h |
| Temperatura de descarga   | 33,1 °C  |

No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

Intercambiador, Recuperador vertical, Paquete de placas AG AL 09 N 0500 C 1 AE SC



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Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm

Bandeja 0708 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

Alumbrado, 230V LED, montado y cableado

**(4) Batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 3 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 0/0 Pulgadas - 1 0/0 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 22 °C                           |
| Potencia (total)                      | 19,48 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 1,13 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 30 Pa                           |
| Pérdida de carga en el lado del medio | 3,14 kPa                        |
| Velocidad del aire                    | 2,37 m/s                        |
| Contenido de agua                     | 2,73 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

**(5) Batería de frío**

|   |                                 |
|---|---------------------------------|
| Tipo de batería                             | W/22/461/6R/12K/3.7Cu,9.5/Al-L1 |
| Conexión (entrada/salida)                   | DN 25, 1" - DN 25, 1"           |
| Temperatura de aire de entrada              | 36,5 °C                         |
| Humedad relativa                            | 27,0 %                          |
| Temperatura de aire de salida               | 17,5 °C                         |
| Humedad relativa                            | 82,4 %                          |
| Potencia (sensible)                         | 14,08 kW                        |
| Potencia (total)                            | 14,08 kW                        |
| Pérdida de carga en el lado del aire (seco) | 71 Pa                           |
| Entrada del medio                           | 7 °C                            |
| Salida del medio                            | 12 °C                           |
| Cantidad de líquido                         | 2,42 m³/h                       |
| Pérdida de carga en el lado del medio       | 19,2 kPa                        |
| Velocidad del aire                          | 2,37 m/s                        |
| Contenido de agua                           | 5,5 l                           |
| Densidad del aire                           | 1,2 kg/m³                       |

Rieles de acero inoxidable V2A

Bandeja en acero inoxidable 0706 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

**(6) Módulo vacío 305**



(7) Ventilador, Giro libre con motor EC

|  |                           |     |     |     |      |      |      |                   |           |
|--|---------------------------|-----|-----|-----|------|------|------|-------------------|-----------|
| Caudal de aire                               |                           |     |     |     |      |      |      | 2160              | m³/h      |
| Pérdida de carga externa                     |                           |     |     |     |      |      |      | 300               | Pa        |
| Presión interna del ventilador               |                           |     |     |     |      |      |      | 6                 | Pa        |
| Pérdida de carga interna                     |                           |     |     |     |      |      |      | 646               | Pa        |
| Pérdida de carga dinámica                    |                           |     |     |     |      |      |      | 56                | Pa        |
| Pérdida de carga total                       |                           |     |     |     |      |      |      | 1008              | Pa        |
| Tipo de ventilador                           | VME250-1,18/400EC-4000-mK |     |     |     |      |      |      |                   |           |
| Número de revoluciones del ventilador        |                           |     |     |     |      |      |      | 3686              | 1/min     |
| Número de revoluciones máximo del ventilador |                           |     |     |     |      |      |      | 4000              | 1/min     |
| Rendimiento total                            |                           |     |     |     |      |      |      | 63,1              | %         |
| Corriente del motor                          |                           |     |     |     |      |      |      | 1,49              | A         |
| Corriente máxima del motor                   |                           |     |     |     |      |      |      | 1,80              | A         |
| Máxima potencia del motor                    |                           |     |     |     |      |      |      | 1,18              | kW        |
| Tensión del motor                            |                           |     |     |     |      |      |      | 3*400             | V         |
| Tensión de mando                             |                           |     |     |     |      |      |      | 8,17              | V         |
| Valor K                                      |                           |     |     |     |      |      |      | 76                |           |
| Clase de eficiencia energética               |                           |     |     |     |      |      |      | corresponde a IE5 |           |
| Potencia eléctrica activa Pm                 |                           |     |     |     |      |      |      | 0,96              | kW        |
| Potencia consumida en las condiciones SFPv   |                           |     |     |     |      |      |      | 0,84              | kW        |
| SFP (Potencia específica del ventilador)     |                           |     |     |     |      |      |      | 1,40              | kW/(m³/s) |
|  |                           |     |     |     |      |      |      | 0,390             | W/(m³/h)  |
| Tipo   |                           |     |     |     |      |      |      | 2138492           |           |
| SFP según EN 16798-3                         |                           |     |     |     |      |      |      | SFP3              |           |
| Clase-P según EN 13053 Pm ref: 1,38 kW       |                           |     |     |     |      |      |      | P1                |           |
| Densidad del aire                            |                           |     |     |     |      |      |      | 1,2               | kg/m³     |
| Frecuencia de octava [Hz]                    | 63                        | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000              | Suma      |
| Lw(A) lado de aspiración                     | 51                        | 61  | 66  | 73  | 73   | 72   | 75   | 69                | 80        |
| Lw(A) lado de impulsión                      | 50                        | 59  | 70  | 76  | 79   | 79   | 74   | 71                | 84        |

Toma de presión conducida hasta el exterior del equipo

Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire

(9) Silenciador tipo 11

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 24 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11

Colisas del silenciador extraíbles para profundidad de 230 mm



(10) Filtro ISO ePM1 85%

| EN ISO 16890   | ISO ePM1 85% |
|--|--------------|
| Pérdida de carga inicial (limpio)  | 107 Pa       |
| Pérdida de carga seleccionada  | 157 Pa       |
| Pérdida de carga final   | 207 Pa       |
| Energieverbrauch (Eurovent 4/21: -)  | 3081 kWh     |
| Superficie del filtro  | 5,39 m²      |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 612 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |              |
| Pérdida de carga   | 2 Pa         |

Filtro de bolsa F9 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Retorno

(3) Recuperador de calor de placas de alta eficacia, vertical

Datos técnicos: véase la sección de impulsión

(11) Filtro ISO polvo grueso 60%

| EN ISO 16890   | ISO Coarse 60% |
|--|----------------|
| Pérdida de carga inicial (limpio)  | 19 Pa          |
| Pérdida de carga seleccionada  | 38 Pa          |
| Pérdida de carga final   | 57 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 0,51 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 612 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 2 Pa           |

Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso

(12) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 68 Pa        |
| Pérdida de carga seleccionada       | 118 Pa       |
| Pérdida de carga final              | 168 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 5,39 m²      |

Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble



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Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso

(13) Silenciador tipo 2

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 7 Pa    |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2  
Colisas del silenciador extraíbles para profundidad de 200 mm

(14) Humectador adiabático de agua perdida

|  |           |
|--|-----------|
| Medio  | HU-CEL    |
| Temperatura de entrada del aire  | 26 °C     |
| Humedad relativa   | 40 %      |
| Temperatura de salida del aire   | 17,8 °C   |
| Humedad relativa   | 91 %      |
| Velocidad del aire   | 2,3 m/s   |
| Capacidad de humectación   | 8,37 kg/h |
| Pérdida de carga   | 40 Pa     |
| Cantidad de agua a intervalos para la humectación del medio    tres o cuatro veces la capacidad de humectación |           |
| Eficiencia del humectador  | 90 %      |
| Humidificación específica  | 3,4 g/kg  |

Mirilla con posibilidad de oscurecimiento  
Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1  
Rieles del KBF en acero inoxidable V2A  
bandeja acero inoxidable 0709 KGT salida derecha  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Puerta de acceso

(16) Ventilador, Giro libre con motor EC

|  |                           |
|--|---------------------------|
| Caudal de aire                               | 2052 m³/h                 |
| Pérdida de carga externa                     | 300 Pa                    |
| Presión interna del ventilador               | 4 Pa                      |
| Pérdida de carga interna                     | 388 Pa                    |
| Pérdida de carga dinámica                    | 37 Pa                     |
| Pérdida de carga total                       | 729 Pa                    |
| Tipo de ventilador                           | VME280-1,05/400EC-3400-mK |
| Número de revoluciones del ventilador        | 2840 1/min                |
| Número de revoluciones máximo del ventilador | 3400 1/min                |
| Rendimiento total                            | 63,1 %                    |
| Corriente del motor                          | 1,05 A                    |
| Corriente máxima del motor                   | 1,60 A                    |



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|  |                   |                                      |
|--|-------------------|--------------------------------------|
| Máxima potencia del motor  | 1,05              | kW                                   |
| Tensión del motor  | 3*400             | V                                    |
| Tensión de mando   | 7,34              | V                                    |
| Valor K  | 77                |                                      |
| Clase de eficiencia energética   | corresponde a IE5 |                                      |
| Potencia eléctrica activa Pm   | 0,66              | kW                                   |
| Potencia consumida en las condiciones SFPv   | 0,59              | kW                                   |
| SFP (Potencia específica del ventilador)   | 1,03              | kW/(m³/s)                            |
|  | 0,287             | W/(m³/h)                             |
| Tipo   | 2138495           |                                      |
| SFP según EN 16798-3   | SFP1              |                                      |
| Clase-P según EN 13053 Pm ref: 0,98 kW   | P1                |                                      |
| Densidad del aire  | 1,2               | kg/m³                                |
| Frecuencia de octava [Hz]  | 63                | 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración   | 39                | 50 64 67 67 67 66 62 74              |
| Lw(A) lado de impulsión  | 47                | 54 68 73 75 74 70 66 80              |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 612 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                   |                                      |
| Pérdida de carga   | 2                 | Pa                                   |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Resumen de accesorios

- 5 Alumbrado, 230V LED, montado y cableado
- 4 Mirilla
- 1 Mirilla con posibilidad de oscurecimiento
- 1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.
- 2 Puerta de acceso
- 2 Puerta de acceso
- 4 Puerta de acceso
- 2 Toma de presión conducida hasta el exterior del equipo

Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|                                 |   |
|---------------------------------|---|
| Tipo de equipo                  | Unidad de ventilación bidireccional (UVB) |
| Sistema de recuperación         | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.       | 71 / 39 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.   | 199 / 181 Pa                              |
| DeltaPs,int                     | 490 Pa                                    |
| DeltaPs, adicional              | 355 Pa                                    |
| Eficiencia recuperador/objetivo | 76 / 73 %                                 |



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|  |                      |
|--|----------------------|
| Vent. eta opt. EU:327/2011   | (7) 65,6% (16) 67,1% |
| Grado de eficiencia N  | (7) 75,5 / (16) 77,5 |
| Vent. eta stat. eingebaut  | (7) 59,2% (16) 59,5% |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 825 / 1102 W/(m³/s)  |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1,11 %               |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,69 %               |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



Ficha técnica

CL-0204 aire primario talleres -1

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Cliente

GOC

Proyecto / Referencia

CL-0204 aire primario  
talleres -1

LV-Pos./Adjunto

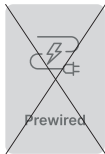
Su persona de contacto

Su referencia

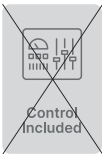
Nuestro responsable del proyecto

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno                            |
| Tamaño (Imp/Ret)                           | AHU TE EC 110                                  |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple                              |
| Ubicación                                  | para interior                                  |
| Variante                                   | Estándar                                       |
| Tratamiento de la superficie de la carcasa | galvanizado                                    |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas                          |



Prewired



Control included



Smartset



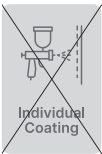
Easy Lifting Lugs



Heatpump Technology



TB2



Individual Coating



Stainless Steel

|   | Impulsión   | Retorno             |
|---|---|---------------------|
| Caudal de aire                                      | 6357 m³/h 1,77 m³/s   | 6039 m³/h 1,68 m³/s |
| Presión / pérdida de carga externa                  | 300 Pa  | 300 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,90 m/s  | 1,80 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,9 m/s (V3)  | 1,8 m/s (V2)        |
| Dimensiones (Largo,Ancho,Altura)                    | 7627 x 1627 x 1424 mm   |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 2109 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 3,8 A + Retorno: 3,8 A = 7,6 A   |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 2,5 KW + Retorno: 2,5 KW = 5 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 57,34 kW  |                     |
| Potencia de frío necesaria (BAF)                    | 30,95 kW  |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A+  |                     |
| Eficiencia energética RLT                           | A+  |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.



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Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

|  |                |
|--|----------------|
| Caudal de aire   | 3175 m³/h      |
| EN ISO 16890   | ISO Coarse 60% |
| Pérdida de carga inicial (limpio)  | 12 Pa          |
| Pérdida de carga seleccionada  | 24 Pa          |
| Pérdida de carga final   | 36 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 1,26 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 1 Pa           |

Filtro sin marco G4

Rieles para filtro de manta, Rieles de filtro de manta

Puerta de acceso

(2) Filtro ISO ePM1 50%

|                                     |              |
|-------------------------------------|--------------|
| Caudal de aire                      | 3175 m³/h    |
| EN ISO 16890                        | ISO ePM1 50% |
| Pérdida de carga inicial (limpio)   | 42 Pa        |
| Pérdida de carga seleccionada       | 84 Pa        |
| Pérdida de carga final              | 126 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |



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|                       |          |
|-----------------------|----------|
| Superficie del filtro | 13,48 m² |
|-----------------------|----------|

Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Puerta de acceso

**(3) Recuperador de calor de placas de alta eficacia, vertical**

|   |           |
|---|-----------|
| Caudal de aire de impulsión   | 3175 m³/h |
| Caudal de aire de retorno   | 3175 m³/h |
| <b>Precalementamiento del aire exterior (WRG)</b>   |           |
| Temperatura exterior  | -4,9 °C   |
| Humedad relativa de aire exterior   | 90 %      |
| Temperatura del retorno   | 22,0 °C   |
| Humedad relativa del retorno  | 45,0 %    |
| Datos referidos a la temperatura del aire exterior  |           |
| Temperatura del aire exterior mínima  | -4,9 °C   |
| Temperatura de impulsión  | 17,5 °C   |
| Humedad relativa de impulsión   | 18 %      |
| Grado de transferencia de temperatura seca según EN 308                                   | 77 %      |
| Factor de recuperación de calor   | 83 %      |
| Potencia térmica  | 23,8 kW   |
| Condensado  | 7,8 kg/h  |
| Temperatura de descarga   | 4,8 °C    |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 74 Pa     |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 74 Pa     |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 0,20 kW   |
| Coeficiente de rendimiento  | 76,90     |
| Eficiencia energética   | 76 %      |
| Clase de recuperador según EN 13053/2020  | H1        |
| Máx. porcentaje de fugas  | 0,25 %    |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 85,3 %    |
| <b>en modo de desescarche (ca. 3.5 °C FOL)</b>  |           |
| Temperatura de aire de impulsión  | 17,5 °C   |
| <b>Preenfriamiento del aire exterior (WRG)</b>  |           |
| Temperatura exterior  | 36,5 °C   |
| Humedad relativa de aire exterior   | 27,0 %    |
| Temperatura del retorno   | 24,0 °C   |
| Humedad relativa del retorno  | 50,0 %    |
| Temperatura de impulsión  | 26,8 °C   |
| Humedad relativa de impulsión   | 47 %      |
| Factor de recuperación de calor   | 78 %      |
| Potencia térmica  | 10,3 kW   |
| Condensado  | 0,0 kg/h  |



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|                         |         |
|-------------------------|---------|
| Temperatura de descarga | 33,7 °C |
|-------------------------|---------|

No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

Intercambiador, Recuperador vertical, Paquete de placas AG AL 09 N 750+500 C 1 AE SC

Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 10 Nm par de giro / eje de accionamiento 15 x 15 mm

Bandeja 1608 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

Alumbrado, 230V LED, montado y cableado

**(4) Módulo vacío****(5) Módulo de mezcla**

Compuerta de la clase 2 según la DIN EN 1751, Compuerta de recirculación, 510 x 409 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm

**(6) Batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 2 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/4 Pulgadas - 1 1/4 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 22 °C                           |
| Potencia (total)                      | 57,34 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 3,34 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 39 Pa                           |
| Pérdida de carga en el lado del medio | 6,76 kPa                        |
| Velocidad del aire                    | 2,32 m/s                        |
| Contenido de agua                     | 5,48 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

**(7) Batería de frío**

|   |                                  |
|---|----------------------------------|
| Tipo de batería                             | W/22/1369/3R/20K/3.0Cu,9.5/Al-L1 |
| Conexión (entrada/salida)                   | DN 32, 1 1/4" - DN 32, 1 1/4"    |
| Temperatura de aire de entrada              | 36,5 °C                          |
| Humedad relativa                            | 28,2 %                           |
| Temperatura de aire de salida               | 22,3 °C                          |
| Humedad relativa                            | 64,0 %                           |
| Potencia (sensible)                         | 30,95 kW                         |
| Potencia (total)                            | 30,95 kW                         |
| Pérdida de carga en el lado del aire (seco) | 47 Pa                            |
| Entrada del medio                           | 7 °C                             |
| Salida del medio                            | 12 °C                            |
| Cantidad de líquido                         | 5,32 m³/h                        |
| Pérdida de carga en el lado del medio       | 19 kPa                           |
| Velocidad del aire                          | 2,35 m/s                         |
| Contenido de agua                           | 7,3 l                            |



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|                   |           |
|-------------------|-----------|
| Densidad del aire | 1,2 kg/m³ |
|-------------------|-----------|

Rieles de acero inoxidable V2A  
Bandeja en acero inoxidable 1606 KGT  
Salida de condensados: DN32, 1 1/4 Pulgadas

(8) Módulo vacío 305

(9) Ventilador, Giro libre con motor EC

|  |   |
|--|---|
| Caudal de aire                               | 6357 m³/h                               |
| Pérdida de carga externa                     | 300 Pa                                  |
| Presión interna del ventilador               | 6 Pa                                    |
| Pérdida de carga interna                     | 481 Pa                                  |
| Pérdida de carga dinámica                    | 62 Pa                                   |
| Pérdida de carga total                       | 849 Pa                                  |
| Tipo de ventilador                           | VME400-2,50/400EC-2450                  |
| Número de revoluciones del ventilador        | 2347 1/min                              |
| Número de revoluciones máximo del ventilador | 2450 1/min                              |
| Rendimiento total                            | 70,3 %                                  |
| Corriente del motor                          | 3,24 A                                  |
| Corriente máxima del motor                   | 3,80 A                                  |
| Máxima potencia del motor                    | 2,50 kW                                 |
| Tensión del motor                            | 3*400 V                                 |
| Tensión de mando                             | 8,12 V                                  |
| Valor K                                      | 188                                     |
| Clase de eficiencia energética               | corresponde a IE5                       |
| Potencia eléctrica activa Pm                 | 2,13 kW                                 |
| Potencia consumida en las condiciones SFPv   | 1,89 kW                                 |
| SFP (Potencia específica del ventilador)     | 1,07 kW/(m³/s)                          |
|  | 0,298 W/(m³/h)                          |
| Tipo   | 2138501                                 |
| SFP según EN 16798-3                         | SFP1                                    |
| Clase-P según EN 13053 Pm ref: 2,98 kW       | P1                                      |
| Densidad del aire                            | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]                    | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración                     | 41 56 66 71 72 78 78 68 82              |
| Lw(A) lado de impulsión                      | 44 57 68 75 79 82 80 72 86              |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire



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(10) Silenciador tipo 11

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 33 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11  
Colisas del silenciador extraíbles para profundidad de 230 mm

(11) Filtro ISO ePM1 85%

|  |              |
|--|--------------|
| EN ISO 16890   | ISO ePM1 85% |
| Pérdida de carga inicial (limpio)  | 126 Pa       |
| Pérdida de carga seleccionada  | 176 Pa       |
| Pérdida de carga final   | 226 Pa       |
| Energieverbrauch (Eurovent 4/21: -)  | 3081 kWh     |
| Superficie del filtro  | 13,48 m²     |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |              |
| Pérdida de carga   | 3 Pa         |

Filtro de bolsa F9 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Retorno

(3) Recuperador de calor de placas de alta eficacia, vertical

Datos técnicos: véase la sección de impulsión

(12) Filtro ISO polvo grueso 60%

|  |                |
|--|----------------|
| EN ISO 16890   | ISO Coarse 60% |
| Pérdida de carga inicial (limpio)  | 23 Pa          |
| Pérdida de carga seleccionada  | 46 Pa          |
| Pérdida de carga final   | 69 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 1,26 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 2 Pa           |

Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso



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(13) Filtro ISO ePM1 50%

|                                     |              |
|-------------------------------------|--------------|
| EN ISO 16890                        | ISO ePM1 50% |
| Pérdida de carga inicial (limpio)   | 80 Pa        |
| Pérdida de carga seleccionada       | 130 Pa       |
| Pérdida de carga final              | 180 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 13,48 m²     |

Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso

(14) Silenciador tipo 2

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 10 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2  
Colisas del silenciador extraíbles para profundidad de 200 mm

(15) Ventilador, Giro libre con motor EC

|  |                        |
|--|------------------------|
| Caudal de aire                               | 6039 m³/h              |
| Pérdida de carga externa                     | 300 Pa                 |
| Presión interna del ventilador               | 6 Pa                   |
| Pérdida de carga interna                     | 318 Pa                 |
| Pérdida de carga dinámica                    | 56 Pa                  |
| Pérdida de carga total                       | 680 Pa                 |
| Tipo de ventilador                           | VME400-2,50/400EC-2450 |
| Número de revoluciones del ventilador        | 2150 1/min             |
| Número de revoluciones máximo del ventilador | 2450 1/min             |
| Rendimiento total                            | 69,3 %                 |
| Corriente del motor                          | 2,53 A                 |
| Corriente máxima del motor                   | 3,80 A                 |
| Máxima potencia del motor                    | 2,50 kW                |
| Tensión del motor                            | 3*400 V                |
| Tensión de mando                             | 7,24 V                 |
| Valor K                                      | 188                    |
| Clase de eficiencia energética               | corresponde a IE5      |
| Potencia eléctrica activa Pm                 | 1,65 kW                |
| Potencia consumida en las condiciones SFPv   | 1,47 kW                |
| SFP (Potencia específica del ventilador)     | 0,88 kW/(m³/s)         |
|  | 0,244 W/(m³/h)         |
| Tipo   | 2138501                |
| SFP según EN 16798-3                         | SFP0                   |



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|  |    |     |     |     |      |      |      |           |      |
|--|----|-----|-----|-----|------|------|------|-----------|------|
| Clase-P según EN 13053 Pm ref: 2,29 kW |    |     |     |     |      |      |      | P1        |      |
| Densidad del aire                      |    |     |     |     |      |      |      | 1,2 kg/m³ |      |
| Frecuencia de octava [Hz]              | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000      | Suma |
| Lw(A) lado de aspiración               | 38 | 55  | 64  | 68  | 73   | 71   | 76   | 64        | 79   |
| Lw(A) lado de impulsión                | 41 | 57  | 64  | 72  | 80   | 77   | 78   | 69        | 84   |

Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

(16) Módulo de mezcla

(17) Humectador adiabático de agua perdida

|  |            |
|--|------------|
| Medio  | HU-CEL     |
| Temperatura de entrada del aire  | 26 °C      |
| Humedad relativa   | 40 %       |
| Temperatura de salida del aire   | 17,9 °C    |
| Humedad relativa   | 91 %       |
| Velocidad del aire   | 2,7 m/s    |
| Capacidad de humectación   | 24,64 kg/h |
| Pérdida de carga   | 55 Pa      |
| Cantidad de agua a intervalos para la humectación del medio    tres o cuatro veces la capacidad de humectación |            |
| Eficiencia del humectador  | 89 %       |
| Humidificación específica  | 3,4 g/kg   |

Mirilla con posibilidad de oscurecimiento  
Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1  
Rieles del KBF en acero inoxidable V2A  
bandeja acero inoxidable 1609 KGT salida derecha  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Puerta de acceso, Puerta de acceso en dirección de aire

(18) Aire de descarga/Módulo vacío E/H

|  |      |
|--|------|
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |      |
| Pérdida de carga   | 1 Pa |

Resumen de accesorios

- 5 Alumbrado, 230V LED, montado y cableado
- 5 Mirilla
- 1 Mirilla con posibilidad de oscurecimiento
- 1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.
- 2 Puerta de acceso
- 6 Puerta de acceso



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- 1 Toma de presión conducida hasta el exterior del equipo

## Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|  |   |
|--|---|
| Tipo de equipo   | Unidad de ventilación bidireccional (UVB) |
| Sistema de recuperación  | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.  | 42 / 45 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.                                      | 74 / 74 Pa                                |
| DeltaPs,int  | 235 Pa                                    |
| DeltaPs, adicional   | 387 Pa                                    |
| Eficiencia recuperador/objetivo                                    | 77 / 73 %                                 |
| Vent. eta opt. EU:327/2011   | (9) 69,1% (15) 69,1%                      |
| Grado de eficiencia N  | (9) 75,5 / (15) 75,5                      |
| Vent. eta stat. eingebaut  | (9) 64,7% (15) 63%                        |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 368 / 962 W/(m³/s)                        |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1,04 %                                    |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,65 %                                    |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



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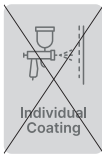
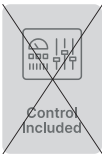
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|                        |                                  |                                  |
|------------------------|----------------------------------|----------------------------------|
| Cliente                | Proyecto / Referencia            | LV-Pos./Adjunto                  |
| GOC                    | CL-0203 MANTENIMIENTO Y TALLERES |                                  |
| Su persona de contacto | Su referencia                    | Nuestro responsable del proyecto |

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno                            |
| Tamaño (Imp/Ret)                           | AHU TE EC 85                                   |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple                              |
| Ubicación                                  | para interior                                  |
| Variante                                   | Estándar                                       |
| Tratamiento de la superficie de la carcasa | galvanizado                                    |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas                          |



|   |   |                     |
|---|---|---------------------|
|   | Impulsión   | Retorno             |
| Caudal de aire                                      | 5040 m³/h 1,40 m³/s   | 4789 m³/h 1,33 m³/s |
| Presión / pérdida de carga externa                  | 300 Pa  | 300 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,88 m/s  | 1,79 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,9 m/s (V3)  | 1,8 m/s (V2)        |
| Dimensiones (Largo,Ancho,Altura)                    | 5898 x 1627 x 1424 mm   |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 1602 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 3,8 A + Retorno: 3 A = 6,8 A   |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 2,5 KW + Retorno: 1,9 KW = 4,4 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 45,46 kW  |                     |
| Potencia de frío necesaria (BAF)                    | 23,83 kW  |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A   |                     |
| Eficiencia energética RLT                           | A   |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.





Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890  | ISO Coarse 60% |
|---|----------------|
| Pérdida de carga inicial (limpio)   | 24 Pa          |
| Pérdida de carga seleccionada   | 48 Pa          |
| Pérdida de carga final  | 72 Pa          |
| Energieverbrauch (Eurovent 4/21: -)   | - kWh          |
| Superficie del filtro   | 1,02 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga  | 2 Pa           |

Filtro sin marco G4  
 Rieles para filtro de manta, Rieles de filtro de manta  
 Puerta de acceso

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 83 Pa        |
| Pérdida de carga seleccionada       | 133 Pa       |
| Pérdida de carga final              | 183 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 10,78 m²     |



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Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Puerta de acceso

**(3) Recuperador de calor de placas de alta eficacia, vertical**

|   |           |
|---|-----------|
| <b>Precalentamiento del aire exterior (WRG)</b>   |           |
| Temperatura exterior  | -4,9 °C   |
| Humedad relativa de aire exterior   | 90 %      |
| Temperatura del retorno   | 22,0 °C   |
| Humedad relativa del retorno  | 50,0 %    |
| Datos referidos a la temperatura del aire exterior  |           |
| Temperatura del aire exterior mínima  | -4,9 °C   |
| Temperatura de impulsión  | 17,3 °C   |
| Humedad relativa de impulsión   | 19 %      |
| Grado de transferencia de temperatura seca según EN 308                                   | 76 %      |
| Factor de recuperación de calor   | 82 %      |
| Potencia térmica  | 37,4 kW   |
| Condensado  | 14,7 kg/h |
| Temperatura de descarga   | 5,2 °C    |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 168 Pa    |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 153 Pa    |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 0,80 kW   |
| Coeficiente de rendimiento  | 33,60     |
| Eficiencia energética   | 74 %      |
| Clase de recuperador según EN 13053/2020  | H1        |
| Máx. porcentaje de fugas  | 0,25 %    |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 84,3 %    |
| <b>en modo de desescarche (ca. 3.5 °C FOL)</b>  |           |
| Temperatura de aire de impulsión  | 17,3 °C   |
| <b>Preenfriamiento del aire exterior (WRG)</b>  |           |
| Temperatura exterior  | 35,6 °C   |
| Humedad relativa de aire exterior   | 27,0 %    |
| Temperatura del retorno   | 24,0 °C   |
| Humedad relativa del retorno  | 40,0 %    |
| Temperatura de impulsión  | 26,9 °C   |
| Humedad relativa de impulsión   | 44 %      |
| Factor de recuperación de calor   | 75 %      |
| Potencia térmica  | 14,6 kW   |
| Condensado  | 0,0 kg/h  |
| Temperatura de descarga   | 33,1 °C   |

No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

Intercambiador, Recuperador vertical, Paquete de placas AG AL 09 N 750+500 C 1 AE SC



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Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 10 Nm par de giro / eje de accionamiento 15 x 15 mm

Bandeja 1608 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

Alumbrado, 230V LED, montado y cableado

**(4) Batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 3 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/4 Pulgadas - 1 1/4 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 22 °C                           |
| Potencia (total)                      | 45,46 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 2,64 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 44 Pa                           |
| Pérdida de carga en el lado del medio | 4,57 kPa                        |
| Velocidad del aire                    | 2,36 m/s                        |
| Contenido de agua                     | 6,42 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

**(5) Batería de frío**

|   |                                  |
|---|----------------------------------|
| Tipo de batería                             | W/22/1064/3R/15K/3.0Cu,9.5/Al-L1 |
| Conexión (entrada/salida)                   | DN 32, 1 1/4" - DN 32, 1 1/4"    |
| Temperatura de aire de entrada              | 36,5 °C                          |
| Humedad relativa                            | 27,0 %                           |
| Temperatura de aire de salida               | 22,7 °C                          |
| Humedad relativa                            | 59,8 %                           |
| Potencia (sensible)                         | 23,83 kW                         |
| Potencia (total)                            | 23,83 kW                         |
| Pérdida de carga en el lado del aire (seco) | 49 Pa                            |
| Entrada del medio                           | 7 °C                             |
| Salida del medio                            | 12 °C                            |
| Cantidad de líquido                         | 4,1 m³/h                         |
| Pérdida de carga en el lado del medio       | 20,8 kPa                         |
| Velocidad del aire                          | 2,39 m/s                         |
| Contenido de agua                           | 6 l                              |
| Densidad del aire                           | 1,2 kg/m³                        |

Rieles de acero inoxidable V2A

Bandeja en acero inoxidable 1306 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

**(6) Módulo vacío 305**



(7) Ventilador, Giro libre con motor EC

|  |                        |     |     |     |      |      |      |      |      |
|--|------------------------|-----|-----|-----|------|------|------|------|------|
| Caudal de aire                               | 5040 m³/h              |     |     |     |      |      |      |      |      |
| Pérdida de carga externa                     | 300 Pa                 |     |     |     |      |      |      |      |      |
| Presión interna del ventilador               | 4 Pa                   |     |     |     |      |      |      |      |      |
| Pérdida de carga interna                     | 654 Pa                 |     |     |     |      |      |      |      |      |
| Pérdida de carga dinámica                    | 39 Pa                  |     |     |     |      |      |      |      |      |
| Pérdida de carga total                       | 997 Pa                 |     |     |     |      |      |      |      |      |
| Tipo de ventilador                           | VME400-2,50/400EC-2450 |     |     |     |      |      |      |      |      |
| Número de revoluciones del ventilador        | 2310 1/min             |     |     |     |      |      |      |      |      |
| Número de revoluciones máximo del ventilador | 2450 1/min             |     |     |     |      |      |      |      |      |
| Rendimiento total                            | 66,3 %                 |     |     |     |      |      |      |      |      |
| Corriente del motor                          | 3,20 A                 |     |     |     |      |      |      |      |      |
| Corriente máxima del motor                   | 3,80 A                 |     |     |     |      |      |      |      |      |
| Máxima potencia del motor                    | 2,50 kW                |     |     |     |      |      |      |      |      |
| Tensión del motor                            | 3*400 V                |     |     |     |      |      |      |      |      |
| Tensión de mando                             | 7,93 V                 |     |     |     |      |      |      |      |      |
| Valor K                                      | 188                    |     |     |     |      |      |      |      |      |
| Clase de eficiencia energética               | corresponde a IE5      |     |     |     |      |      |      |      |      |
| <b>Potencia eléctrica activa Pm</b>          | <b>2,10 kW</b>         |     |     |     |      |      |      |      |      |
| Potencia consumida en las condiciones SFPv   | 1,84 kW                |     |     |     |      |      |      |      |      |
| SFP (Potencia específica del ventilador)     | 1,31 kW/(m³/s)         |     |     |     |      |      |      |      |      |
|  | 0,364 W/(m³/h)         |     |     |     |      |      |      |      |      |
| Tipo   | 2138501                |     |     |     |      |      |      |      |      |
| SFP según EN 16798-3                         | SFP2                   |     |     |     |      |      |      |      |      |
| Clase-P según EN 13053 Pm ref: 2,91 kW       | P1                     |     |     |     |      |      |      |      |      |
| Densidad del aire                            | 1,2 kg/m³              |     |     |     |      |      |      |      |      |
| Frecuencia de octava [Hz]                    | 63                     | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Suma |
| Lw(A) lado de aspiración                     | 43                     | 69  | 71  | 72  | 73   | 77   | 72   | 65   | 81   |
| Lw(A) lado de impulsión                      | 46                     | 68  | 72  | 82  | 79   | 81   | 77   | 70   | 87   |

Toma de presión conducida hasta el exterior del equipo

Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire

(9) Silenciador tipo 11

|                                  |        |        |        |         |         |         |         |  |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|--|
| Pérdida de carga seleccionada    | 33 Pa  |        |        |         |         |         |         |  |
| Introducción de la amortiguación |        |        |        |         |         |         |         |  |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |  |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |  |

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11

Colisas del silenciador extraíbles para profundidad de 230 mm



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(10) Filtro ISO ePM1 85%

| EN ISO 16890  | ISO ePM1 85% |
|---|--------------|
| Pérdida de carga inicial (limpio)   | 125 Pa       |
| Pérdida de carga seleccionada   | 175 Pa       |
| Pérdida de carga final  | 225 Pa       |
| Energieverbrauch (Eurovent 4/21: -)   | 3081 kWh     |
| Superficie del filtro   | 10,78 m²     |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |              |
| Pérdida de carga  | 2 Pa         |

Filtro de bolsa F9 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Retorno

(3) Recuperador de calor de placas de alta eficacia, vertical

Datos técnicos: véase la sección de impulsión

(11) Filtro ISO polvo grueso 60%

| EN ISO 16890  | ISO Coarse 60% |
|---|----------------|
| Pérdida de carga inicial (limpio)   | 23 Pa          |
| Pérdida de carga seleccionada   | 46 Pa          |
| Pérdida de carga final  | 69 Pa          |
| Energieverbrauch (Eurovent 4/21: -)   | - kWh          |
| Superficie del filtro   | 1,02 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga  | 2 Pa           |

Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso

(12) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 79 Pa        |
| Pérdida de carga seleccionada       | 129 Pa       |
| Pérdida de carga final              | 179 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 10,78 m²     |

Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble



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Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso

(13) Silenciador tipo 2

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 10 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2  
Colisas del silenciador extraíbles para profundidad de 200 mm

(14) Humectador adiabático de agua perdida

|  |            |
|--|------------|
| Medio  | HU-CEL     |
| Temperatura de entrada del aire  | 26 °C      |
| Humedad relativa   | 40 %       |
| Temperatura de salida del aire   | 17,9 °C    |
| Humedad relativa   | 91 %       |
| Velocidad del aire   | 2,6 m/s    |
| Capacidad de humectación   | 19,54 kg/h |
| Pérdida de carga   | 55 Pa      |
| Cantidad de agua a intervalos para la humectación del medio    tres o cuatro veces la capacidad de humectación |            |
| Eficiencia del humectador  | 89 %       |
| Humidificación específica  | 3,4 g/kg   |

Mirilla con posibilidad de oscurecimiento  
Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1  
Rieles del KBF en acero inoxidable V2A  
bandeja acero inoxidable 1309 KGT salida derecha  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Puerta de acceso

(16) Ventilador, Giro libre con motor EC

|  |                        |
|--|------------------------|
| Caudal de aire                               | 4789 m³/h              |
| Pérdida de carga externa                     | 300 Pa                 |
| Presión interna del ventilador               | 6 Pa                   |
| Pérdida de carga interna                     | 397 Pa                 |
| Pérdida de carga dinámica                    | 63 Pa                  |
| Pérdida de carga total                       | 766 Pa                 |
| Tipo de ventilador                           | VME355-1,90/400EC-2870 |
| Número de revoluciones del ventilador        | 2664 1/min             |
| Número de revoluciones máximo del ventilador | 2870 1/min             |
| Rendimiento total                            | 67,3 %                 |
| Corriente del motor                          | 2,37 A                 |
| Corriente máxima del motor                   | 3,00 A                 |



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|   |   |
|---|---|
| Máxima potencia del motor   | 1,90 kW                                 |
| Tensión del motor   | 3*400 V                                 |
| Tensión de mando  | 7,74 V                                  |
| Valor K   | 148                                     |
| Clase de eficiencia energética  | corresponde a IE5                       |
| Potencia eléctrica activa Pm  | 1,51 kW                                 |
| Potencia consumida en las condiciones SFPv  | 1,39 kW                                 |
| SFP (Potencia específica del ventilador)  | 1,04 kW/(m³/s)                          |
|   | 0,289 W/(m³/h)                          |
| Tipo  | 2138499                                 |
| SFP según EN 16798-3  | SFP1                                    |
| Clase-P según EN 13053 Pm ref: 2,08 kW  | P1                                      |
| Densidad del aire   | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]   | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración  | 35 51 66 70 71 74 75 68 79              |
| Lw(A) lado de impulsión   | 37 52 66 73 78 79 80 72 85              |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |   |
| Pérdida de carga  | 2 Pa                                    |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Resumen de accesorios

- 5 Alumbrado, 230V LED, montado y cableado
- 4 Mirilla
- 1 Mirilla con posibilidad de oscurecimiento
- 1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.
- 2 Puerta de acceso
- 6 Puerta de acceso
- 2 Toma de presión conducida hasta el exterior del equipo

Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|                                 |   |
|---------------------------------|---|
| Tipo de equipo                  | Unidad de ventilación bidireccional (UVB) |
| Sistema de recuperación         | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.       | 83 / 45 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.   | 168 / 153 Pa                              |
| DeltaPs,int                     | 449 Pa                                    |
| DeltaPs, adicional              | 405 Pa                                    |
| Eficiencia recuperador/objetivo | 76 / 73 %                                 |
| Vent. eta opt. EU:327/2011      | (7) 69,1% (16) 68,8%                      |



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|  |                      |
|--|----------------------|
| Grado de eficiencia N  | (7) 75,5 / (16) 76,4 |
| Vent. eta stat. eingebaut  | (7) 63,5% (16) 61,3% |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 718 / 985 W/(m³/s)   |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1 %                  |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,62 %               |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



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Cliente

GOC

Proyecto / Referencia

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LV-Pos./Adjunto

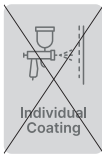
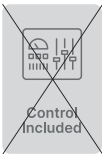
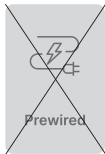
Su persona de contacto

Su referencia

Nuestro responsable del proyecto

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno                            |
| Tamaño (Imp/Ret)                           | AHU TE EC 85                                   |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple                              |
| Ubicación                                  | para interior                                  |
| Variante                                   | Estándar                                       |
| Tratamiento de la superficie de la carcasa | galvanizado                                    |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas                          |



|   | Impulsión   | Retorno             |
|---|---|---------------------|
| Caudal de aire                                      | 5040 m³/h 1,40 m³/s   | 4788 m³/h 1,33 m³/s |
| Presión / pérdida de carga externa                  | 300 Pa  | 300 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,88 m/s  | 1,79 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,9 m/s (V3)  | 1,8 m/s (V2)        |
| Dimensiones (Largo,Ancho,Altura)                    | 5695 x 1627 x 1424 mm   |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 1582 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 3,8 A + Retorno: 3 A = 6,8 A   |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 2,5 KW + Retorno: 1,9 KW = 4,4 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 45,46 kW  |                     |
| Potencia de frío necesaria (BAF)                    | 23,82 kW  |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A   |                     |
| Eficiencia energética RLT                           | A   |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.



Ficha técnica

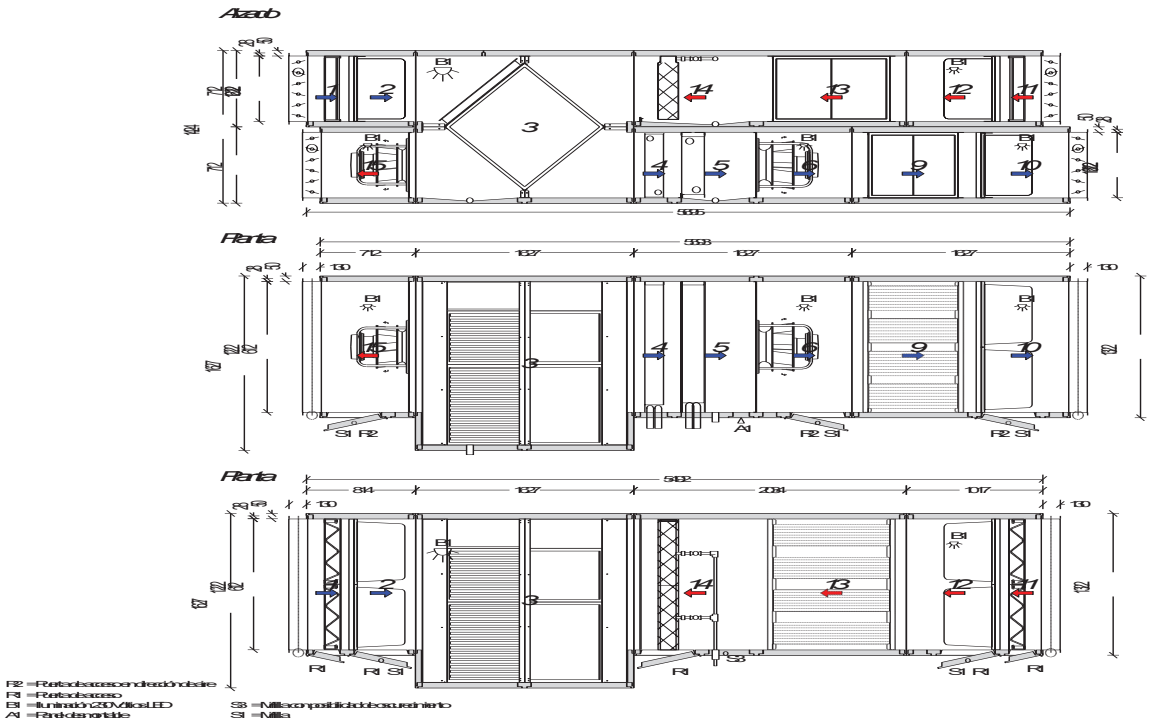
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Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890  | ISO Coarse 60% |
|---|----------------|
| Pérdida de carga inicial (limpio)   | 24 Pa          |
| Pérdida de carga seleccionada   | 48 Pa          |
| Pérdida de carga final  | 72 Pa          |
| Energieverbrauch (Eurovent 4/21: -)   | - kWh          |
| Superficie del filtro   | 1,02 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga  | 2 Pa           |

Filtro sin marco G4

Rieles para filtro de manta, Rieles de filtro de manta

Puerta de acceso

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 83 Pa        |
| Pérdida de carga seleccionada       | 133 Pa       |
| Pérdida de carga final              | 183 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 10,78 m²     |



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Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Puerta de acceso

**(3) Recuperador de calor de placas de alta eficacia, vertical****Precalentamiento del aire exterior (WRG)**

|   |           |
|---|-----------|
| Temperatura exterior  | -4,9 °C   |
| Humedad relativa de aire exterior   | 90 %      |
| Temperatura del retorno   | 22,0 °C   |
| Humedad relativa del retorno  | 50,0 %    |
| Datos referidos a la temperatura del aire exterior  |           |
| Temperatura del aire exterior mínima  | -4,9 °C   |
| Temperatura de impulsión  | 17,3 °C   |
| Humedad relativa de impulsión   | 19 %      |
| Grado de transferencia de temperatura seca según EN 308                                   | 76 %      |
| Factor de recuperación de calor   | 82 %      |
| Potencia térmica  | 37,4 kW   |
| Condensado  | 14,7 kg/h |
| Temperatura de descarga   | 5,2 °C    |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 168 Pa    |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 153 Pa    |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 0,80 kW   |
| Coeficiente de rendimiento  | 33,60     |
| Eficiencia energética   | 74 %      |
| Clase de recuperador según EN 13053/2020  | H1        |
| Máx. porcentaje de fugas  | 0,25 %    |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 84,3 %    |
| <b>en modo de desescarche (ca. 3.5 °C FOL)</b>  |           |
| Temperatura de aire de impulsión  | 17,3 °C   |

**Preenfriamiento del aire exterior (WRG)**

|                                   |          |
|-----------------------------------|----------|
| Temperatura exterior              | 35,6 °C  |
| Humedad relativa de aire exterior | 27,0 %   |
| Temperatura del retorno           | 24,0 °C  |
| Humedad relativa del retorno      | 40,0 %   |
| Temperatura de impulsión          | 26,9 °C  |
| Humedad relativa de impulsión     | 44 %     |
| Factor de recuperación de calor   | 75 %     |
| Potencia térmica                  | 14,6 kW  |
| Condensado                        | 0,0 kg/h |
| Temperatura de descarga           | 33,1 °C  |

No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.



**Ficha técnica**

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Intercambiador, Recuperador vertical, Paquete de placas AG AL 09 N 750+500 C 1 AE SC

Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 10 Nm par de giro / eje de accionamiento 15 x 15 mm

Bandeja 1608 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

Alumbrado, 230V LED, montado y cableado

**(4) Batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 3 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/4 Pulgadas - 1 1/4 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 22 °C                           |
| Potencia (total)                      | 45,46 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 2,64 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 44 Pa                           |
| Pérdida de carga en el lado del medio | 4,57 kPa                        |
| Velocidad del aire                    | 2,36 m/s                        |
| Contenido de agua                     | 6,42 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

Lacado

**(5) Batería de frío**

|   |                                  |
|---|----------------------------------|
| Tipo de batería                             | W/22/1064/3R/15K/3.0Cu,9.5/Al-L1 |
| Conexión (entrada/salida)                   | DN 32, 1 1/4" - DN 32, 1 1/4"    |
| Temperatura de aire de entrada              | 36,5 °C                          |
| Humedad relativa                            | 28,2 %                           |
| Temperatura de aire de salida               | 22,7 °C                          |
| Humedad relativa                            | 62,5 %                           |
| Potencia (sensible)                         | 23,82 kW                         |
| Potencia (total)                            | 23,82 kW                         |
| Pérdida de carga en el lado del aire (seco) | 49 Pa                            |
| Entrada del medio                           | 7 °C                             |
| Salida del medio                            | 12 °C                            |
| Cantidad de líquido                         | 4,09 m³/h                        |
| Pérdida de carga en el lado del medio       | 20,8 kPa                         |
| Velocidad del aire                          | 2,39 m/s                         |
| Contenido de agua                           | 6 l                              |
| Densidad del aire                           | 1,2 kg/m³                        |

Rieles de acero inoxidable V2A

Bandeja en acero inoxidable 1306 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas



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(6) Ventilador, Giro libre con motor EC

|  |                        |           |
|--|------------------------|-----------|
| Caudal de aire                               | 5040                   | m³/h      |
| Pérdida de carga externa                     | 300                    | Pa        |
| Presión interna del ventilador               | 4                      | Pa        |
| Pérdida de carga interna                     | 654                    | Pa        |
| Pérdida de carga dinámica                    | 39                     | Pa        |
| Pérdida de carga total                       | 997                    | Pa        |
| Tipo de ventilador                           | VME400-2,50/400EC-2450 |           |
| Número de revoluciones del ventilador        | 2310                   | 1/min     |
| Número de revoluciones máximo del ventilador | 2450                   | 1/min     |
| Rendimiento total                            | 66,3                   | %         |
| Corriente del motor                          | 3,20                   | A         |
| Corriente máxima del motor                   | 3,80                   | A         |
| Máxima potencia del motor                    | 2,50                   | kW        |
| Tensión del motor                            | 3*400                  | V         |
| Tensión de mando                             | 7,93                   | V         |
| Valor K                                      | 188                    |           |
| Clase de eficiencia energética               | corresponde a IE5      |           |
| Potencia eléctrica activa Pm                 | 2,10                   | kW        |
| Potencia consumida en las condiciones SFPv   | 1,84                   | kW        |
| SFP (Potencia específica del ventilador)     | 1,31                   | kW/(m³/s) |
|  | 0,364                  | W/(m³/h)  |
| Tipo   | 2138501                |           |
| SFP según EN 16798-3                         | SFP2                   |           |
| Clase-P según EN 13053 Pm ref: 2,91 kW       | P1                     |           |
| Densidad del aire                            | 1,2                    | kg/m³     |
| Frecuencia de octava [Hz]                    | 63                     | 125       |
|  | 250                    | 500       |
|  | 1000                   | 2000      |
|  | 4000                   | 8000      |
|  | Suma                   |           |
| Lw(A) lado de aspiración                     | 43                     | 69        |
|  | 71                     | 72        |
|  | 73                     | 77        |
|  | 72                     | 65        |
|  | 81                     |           |
| Lw(A) lado de impulsión                      | 46                     | 68        |
|  | 72                     | 82        |
|  | 79                     | 81        |
|  | 77                     | 70        |
|  | 87                     |           |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

(9) Silenciador tipo 11

|                                  |         |         |
|----------------------------------|---------|---------|
| Pérdida de carga seleccionada    | 33      | Pa      |
| Introducción de la amortiguación |         |         |
| 63 Hz                            | 125 Hz  | 250 Hz  |
| 500 Hz                           | 1000 Hz | 2000 Hz |
| 4000 Hz                          | 8000 Hz |         |
| 4 dB                             | 8 dB    | 18 dB   |
| 21 dB                            | 23 dB   | 17 dB   |
| 13 dB                            | 14 dB   |         |

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11  
Colisas del silenciador extraíbles para profundidad de 230 mm



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(10) Filtro ISO ePM1 85%

| EN ISO 16890  | ISO ePM1 85% |
|---|--------------|
| Pérdida de carga inicial (limpio)   | 125 Pa       |
| Pérdida de carga seleccionada   | 175 Pa       |
| Pérdida de carga final  | 225 Pa       |
| Energieverbrauch (Eurovent 4/21: -)   | 3081 kWh     |
| Superficie del filtro   | 10,78 m²     |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |              |
| Pérdida de carga  | 2 Pa         |

Filtro de bolsa F9 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Retorno

(3) Recuperador de calor de placas de alta eficacia, vertical

Datos técnicos: véase la sección de impulsión

(11) Filtro ISO polvo grueso 60%

| EN ISO 16890  | ISO Coarse 60% |
|---|----------------|
| Pérdida de carga inicial (limpio)   | 23 Pa          |
| Pérdida de carga seleccionada   | 46 Pa          |
| Pérdida de carga final  | 69 Pa          |
| Energieverbrauch (Eurovent 4/21: -)   | - kWh          |
| Superficie del filtro   | 1,02 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga  | 2 Pa           |

Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso

(12) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 79 Pa        |
| Pérdida de carga seleccionada       | 129 Pa       |
| Pérdida de carga final              | 179 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 10,78 m²     |

Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble



**Ficha técnica**

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Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso

**(13) Silenciador tipo 2**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 10 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2

Colisas del silenciador extraíbles para profundidad de 200 mm

**(14) Humectador adiabático de agua perdida**

|   |   |
|---|---|
| Medio   | HU-CEL  |
| Temperatura de entrada del aire                             | 26 °C   |
| Humedad relativa  | 40 %  |
| Temperatura de salida del aire                              | 17,9 °C   |
| Humedad relativa  | 91 %  |
| Velocidad del aire  | 2,6 m/s   |
| Capacidad de humectación                                    | 19,54 kg/h                                      |
| Pérdida de carga  | 55 Pa   |
| Cantidad de agua a intervalos para la humectación del medio | tres o cuatro veces la capacidad de humectación |
| Eficiencia del humectador                                   | 89 %  |
| Humidificación específica                                   | 3,4 g/kg  |

Mirilla con posibilidad de oscurecimiento

Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1

Rieles del KBF en acero inoxidable V2A

bandeja acero inoxidable 1309 KGT salida derecha

Salida de condensados: DN32, 1 1/4 Pulgadas

Puerta de acceso

**(15) Ventilador, Giro libre con motor EC**

|  |                        |
|--|------------------------|
| Caudal de aire                               | 4788 m³/h              |
| Pérdida de carga externa                     | 300 Pa                 |
| Presión interna del ventilador               | 6 Pa                   |
| Pérdida de carga interna                     | 397 Pa                 |
| Pérdida de carga dinámica                    | 63 Pa                  |
| Pérdida de carga total                       | 766 Pa                 |
| Tipo de ventilador                           | VME355-1,90/400EC-2870 |
| Número de revoluciones del ventilador        | 2664 1/min             |
| Número de revoluciones máximo del ventilador | 2870 1/min             |
| Rendimiento total                            | 67,3 %                 |
| Corriente del motor                          | 2,37 A                 |
| Corriente máxima del motor                   | 3,00 A                 |



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|   |                   |                                      |
|---|-------------------|--------------------------------------|
| Máxima potencia del motor   | 1,90              | kW                                   |
| Tensión del motor   | 3*400             | V                                    |
| Tensión de mando  | 7,74              | V                                    |
| Valor K   | 148               |                                      |
| Clase de eficiencia energética  | corresponde a IE5 |                                      |
| Potencia eléctrica activa Pm  | 1,51              | kW                                   |
| Potencia consumida en las condiciones SFPv  | 1,38              | kW                                   |
| SFP (Potencia específica del ventilador)  | 1,04              | kW/(m³/s)                            |
|   | 0,289             | W/(m³/h)                             |
| Tipo  | 2138499           |                                      |
| SFP según EN 16798-3  | SFP1              |                                      |
| Clase-P según EN 13053 Pm ref: 2,08 kW  | P1                |                                      |
| Densidad del aire   | 1,2               | kg/m³                                |
| Frecuencia de octava [Hz]   | 63                | 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración  | 35                | 51 66 70 71 74 75 68 79              |
| Lw(A) lado de impulsión   | 37                | 52 66 73 78 79 80 72 85              |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                   |                                      |
| Pérdida de carga  | 2                 | Pa                                   |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Resumen de accesorios

- 5 Alumbrado, 230V LED, montado y cableado
- 5 Mirilla
- 1 Mirilla con posibilidad de oscurecimiento
- 1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.
- 2 Puerta de acceso
- 6 Puerta de acceso
- 2 Toma de presión conducida hasta el exterior del equipo

Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|                                 |   |
|---------------------------------|---|
| Tipo de equipo                  | Unidad de ventilación bidireccional (UVB) |
| Sistema de recuperación         | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.       | 83 / 45 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.   | 168 / 153 Pa                              |
| DeltaPs,int                     | 449 Pa                                    |
| DeltaPs, adicional              | 405 Pa                                    |
| Eficiencia recuperador/objetivo | 76 / 73 %                                 |
| Vent. eta opt. EU:327/2011      | (6) 69,1% (15) 68,8%                      |



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|  |                      |
|--|----------------------|
| Grado de eficiencia N  | (6) 75,5 / (15) 76,4 |
| Vent. eta stat. eingebaut  | (6) 63,5% (15) 61,3% |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 719 / 985 W/(m³/s)   |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1 %                  |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,62 %               |

Notas:

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014. Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.  
Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.  
El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética. Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



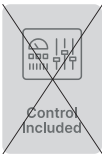
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|                        |   |                                  |
|------------------------|---|----------------------------------|
| Cliente<br>GOC         | Proyecto / Referencia<br>CL-0202 Esterilizacion sucio | LV-Pos./Adjunto                  |
| Su persona de contacto | Su referencia   | Nuestro responsable del proyecto |

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno  |
| Tamaño (Imp/Ret)                           | AHU TE EC 43   |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple  |
| Ubicación                                  | para interior  |
| Variante                                   | Estándar   |
| Tratamiento de la superficie de la carcasa | galvanizado  |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Deshumectar   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas  |



|   | Impulsión   | Retorno             |
|---|---|---------------------|
| Caudal de aire                                      | 1620 m³/h 0,45 m³/s   | 1620 m³/h 0,45 m³/s |
| Presión / pérdida de carga externa                  | 250 Pa  | 250 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,21 m/s  | 1,21 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,2 m/s (V1)  | 1,2 m/s (V1)        |
| Dimensiones (Largo,Ancho,Altura)                    | 6813 x 712 x 1424 mm  |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 1041 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 3,3 A + Retorno: 3,3 A = 6,6 A   |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 0,75 KW + Retorno: 0,75 KW = 1,5 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 15,86 kW  |                     |
| Potencia de frío necesaria (BAF)                    | 11,34 kW  |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A+  |                     |
| Eficiencia energética RLT                           | A+  |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.



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**Ficha técnica**

CL-0202 Esterilización sucio



Número de oferta

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Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Puerta de acceso

**(3) Recuperador de calor de placas de alta eficacia, vertical**

|   |          |
|---|----------|
| <b>Precalentamiento del aire exterior (WRG)</b>   |          |
| Temperatura exterior  | -4,9 °C  |
| Humedad relativa de aire exterior   | 90 %     |
| Temperatura del retorno   | 22,0 °C  |
| Humedad relativa del retorno  | 50,0 %   |
| Datos referidos a la temperatura del aire exterior  |          |
| Temperatura del aire exterior mínima  | -4,9 °C  |
| Temperatura de impulsión  | 16,9 °C  |
| Humedad relativa de impulsión   | 19 %     |
| Grado de transferencia de temperatura seca según EN 308                                   | 75 %     |
| Factor de recuperación de calor   | 81 %     |
| Potencia térmica  | 11,8 kW  |
| Condensado  | 4,5 kg/h |
| Temperatura de descarga   | 6,2 °C   |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 110 Pa   |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 110 Pa   |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 0,20 kW  |
| Coeficiente de rendimiento  | 50,40    |
| Eficiencia energética   | 73 %     |
| Clase de recuperador según EN 13053/2020  | H2       |
| Máx. porcentaje de fugas  | 0,25 %   |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 82,8 %   |
| <b>en modo de desescarche (ca. 3.5 °C FOL)</b>  |          |
| Temperatura de aire de impulsión  | 16,9 °C  |
| <b>Preenfriamiento del aire exterior (WRG)</b>  |          |
| Temperatura exterior  | 35,6 °C  |
| Humedad relativa de aire exterior   | 27,0 %   |
| Temperatura del retorno   | 24,0 °C  |
| Humedad relativa del retorno  | 40,0 %   |
| Temperatura de impulsión  | 26,9 °C  |
| Humedad relativa de impulsión   | 45 %     |
| Factor de recuperación de calor   | 75 %     |
| Potencia térmica  | 4,7 kW   |
| Condensado  | 0,0 kg/h |
| Temperatura de descarga   | 32,7 °C  |

No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

Intercambiador, Recuperador vertical, Paquete de placas FG AL 09 N 500 R 1 AE SC



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Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm

Bandeja 0708 KGT

Salida de condensados: DN32, 1 1/4 Pulgadas

Alumbrado, 230V LED, montado y cableado

**(4) Batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 3 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 0/0 Pulgadas - 1 0/0 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 24,3 °C                         |
| Potencia (total)                      | 15,86 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 0,92 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 17 Pa                           |
| Pérdida de carga en el lado del medio | 2,18 kPa                        |
| Velocidad del aire                    | 1,78 m/s                        |
| Contenido de agua                     | 2,73 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

**(5) módulo vacío con bandeja 915 para humectador 11 Kg/h**

Bandeja en acero inoxidable 0709 KGT salida de condensados a la izquierda

Salida de condensados: DN32, 1 1/4 Pulgadas

Mirilla

Alumbrado, 230V LED, montado y cableado

**(6) Batería de frío**

|   |                                 |
|---|---------------------------------|
| Tipo de batería                             | W/22/461/4R/10K/2.6Cu,9.5/Al-L1 |
| Conexión (entrada/salida)                   | DN 25, 1" - DN 25, 1"           |
| Temperatura de aire de entrada              | 36,5 °C                         |
| Humedad relativa                            | 27,0 %                          |
| Temperatura de aire de salida               | 16,5 °C                         |
| Humedad relativa                            | 86,4 %                          |
| Potencia (latente)                          | 0,23 kW                         |
| Potencia (sensible)                         | 11,11 kW                        |
| Potencia (total)                            | 11,34 kW                        |
| Pérdida de carga en el lado del aire (seco) | 43 Pa                           |
| Entrada del medio                           | 7 °C                            |
| Salida del medio                            | 12 °C                           |
| Cantidad de líquido                         | 1,95 m³/h                       |
| Pérdida de carga en el lado del medio       | 14,4 kPa                        |
| Velocidad del aire                          | 1,77 m/s                        |
| Contenido de agua                           | 3,9 l                           |
| Densidad del aire                           | 1,2 kg/m³                       |

Rieles de acero inoxidable V2A

Bandeja en acero inoxidable 0706 KGT



Salida de condensados: DN32, 1 1/4 Pulgadas

(7) Módulo vacío 305

(8) Ventilador, Giro libre con motor EC

|  |                           |                                      |
|--|---------------------------|--------------------------------------|
| Caudal de aire                               | 1620                      | m³/h                                 |
| Pérdida de carga externa                     | 250                       | Pa                                   |
| Presión interna del ventilador               | 2                         | Pa                                   |
| Pérdida de carga interna                     | 449                       | Pa                                   |
| Pérdida de carga dinámica                    | 23                        | Pa                                   |
| Pérdida de carga total                       | 724                       | Pa                                   |
| Tipo de ventilador                           | VME280-0,75/230EC-3000-mK |                                      |
| Número de revoluciones del ventilador        | 2708                      | 1/min                                |
| Número de revoluciones máximo del ventilador | 3000                      | 1/min                                |
| Rendimiento total                            | 59,3                      | %                                    |
| Corriente del motor                          | 2,42                      | A                                    |
| Corriente máxima del motor                   | 3,30                      | A                                    |
| Máxima potencia del motor                    | 0,75                      | kW                                   |
| Tensión del motor                            | 1 x 230                   | V                                    |
| Tensión de mando                             | 8,14                      | V                                    |
| Valor K                                      | 77                        |                                      |
| Clase de eficiencia energética               | corresponde a IE5         |                                      |
| Potencia eléctrica activa Pm                 | 0,55                      | kW                                   |
| Potencia consumida en las condiciones SFPv   | 0,45                      | kW                                   |
| SFP (Potencia específica del ventilador)     | 1,00                      | kW/(m³/s)                            |
|  | 0,279                     | W/(m³/h)                             |
| Tipo   | 2138494                   |                                      |
| SFP según EN 16798-3                         | SFP1                      |                                      |
| Clase-P según EN 13053 Pm ref: 0,82 kW       | P1                        |                                      |
| Densidad del aire                            | 1,2                       | kg/m³                                |
| Frecuencia de octava [Hz]                    | 63                        | 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración                     | 40                        | 52 65 68 67 66 66 58 74              |
| Lw(A) lado de impulsión                      | 46                        | 56 70 73 73 73 69 63 79              |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire



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**(9) Silenciador tipo 11**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 14 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11

Colisas del silenciador extraíbles para profundidad de 230 mm

**(18) Filtro ISO ePM1 85%**

|  |                     |
|--|---------------------|
| EN ISO 16890   | ISO ePM1 85%        |
| Pérdida de carga inicial (limpio)  | 80 Pa               |
| Pérdida de carga seleccionada  | 130 Pa              |
| Pérdida de carga final   | 180 Pa              |
| Energieverbrauch (Eurovent 4/21: -)  | 3081 kWh            |
| Superficie del filtro  | 5,39 m <sup>2</sup> |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 612 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                     |
| Pérdida de carga   | 1 Pa                |

Filtro de bolsa F9 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire

**Retorno****(3) Recuperador de calor de placas de alta eficacia, vertical**

Datos técnicos: véase la sección de impulsión

**(11) Filtro ISO polvo grueso 60%**

|  |                     |
|--|---------------------|
| EN ISO 16890   | ISO Coarse 60%      |
| Pérdida de carga inicial (limpio)  | 15 Pa               |
| Pérdida de carga seleccionada  | 30 Pa               |
| Pérdida de carga final   | 45 Pa               |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh               |
| Superficie del filtro  | 0,51 m <sup>2</sup> |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 612 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                     |
| Pérdida de carga   | 1 Pa                |

Filtro sin marco G4

Rieles para filtro de manta, Rieles de filtro de manta

Puerta de acceso



(12) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 53 Pa        |
| Pérdida de carga seleccionada       | 103 Pa       |
| Pérdida de carga final              | 153 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 5,39 m²      |

Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso

(13) Silenciador tipo 2

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 5 Pa    |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2  
Colisas del silenciador extraíbles para profundidad de 200 mm

(14) Humectador adiabático de agua perdida

|   |   |
|---|---|
| Medio   | HU-CEL  |
| Temperatura de entrada del aire                             | 26 °C   |
| Humedad relativa  | 40 %  |
| Temperatura de salida del aire                              | 17,7 °C   |
| Humedad relativa  | 92 %  |
| Velocidad del aire  | 1,8 m/s   |
| Capacidad de humectación                                    | 6,8 kg/h  |
| Pérdida de carga  | 30 Pa   |
| Cantidad de agua a intervalos para la humectación del medio | tres o cuatro veces la capacidad de humectación |
| Eficiencia del humectador                                   | 91 %  |
| Humidificación específica                                   | 3,5 g/kg  |

Mirilla con posibilidad de oscurecimiento  
Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1  
Rieles del KBF en acero inoxidable V2A  
bandeja acero inoxidable 0709 KGT salida derecha  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Puerta de acceso



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(16) Ventilador, Giro libre con motor EC

|  |   |
|--|---|
| Caudal de aire   | 1620 m³/h                               |
| Pérdida de carga externa   | 250 Pa                                  |
| Presión interna del ventilador   | 3 Pa                                    |
| Pérdida de carga interna   | 280 Pa                                  |
| Pérdida de carga dinámica  | 32 Pa                                   |
| Pérdida de carga total   | 565 Pa                                  |
| Tipo de ventilador   | VME250-0,75/230EC-3450-mK               |
| Número de revoluciones del ventilador  | 2748 1/min                              |
| Número de revoluciones máximo del ventilador   | 3450 1/min                              |
| Rendimiento total  | 62,4 %                                  |
| Corriente del motor  | 1,81 A                                  |
| Corriente máxima del motor   | 3,30 A                                  |
| Máxima potencia del motor  | 0,75 kW                                 |
| Tensión del motor  | 1 x 230 V                               |
| Tensión de mando   | 7,37 V                                  |
| Valor K  | 76                                      |
| Clase de eficiencia energética   | corresponde a IE5                       |
| Potencia eléctrica activa Pm   | 0,41 kW                                 |
| Potencia consumida en las condiciones SFPv   | 0,36 kW                                 |
| SFP (Potencia específica del ventilador)   | 0,80 kW/(m³/s)                          |
|  | 0,222 W/(m³/h)                          |
| Tipo   | 2138491                                 |
| SFP según EN 16798-3   | SFP0                                    |
| Clase-P según EN 13053 Pm ref: 0,64 kW   | P1                                      |
| Densidad del aire  | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]  | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración   | 49 56 59 64 66 66 69 55 73              |
| Lw(A) lado de impulsión  | 40 51 63 66 70 71 66 61 75              |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 612 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |   |
| Pérdida de carga   | 1 Pa                                    |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Resumen de accesorios

- 6 Alumbrado, 230V LED, montado y cableado
- 5 Mirilla
- 1 Mirilla con posibilidad de oscurecimiento
- 1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.
- 2 Puerta de acceso
- 2 Puerta de acceso
- 4 Puerta de acceso



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2 Toma de presión conducida hasta el exterior del equipo

## Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|  |   |
|--|---|
| Tipo de equipo   | Unidad de ventilación bidireccional (UVB) |
| Sistema de recuperación  | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.  | 53 / 30 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.                                      | 110 / 110 Pa                              |
| DeltaPs,int  | 303 Pa                                    |
| DeltaPs, adicional   | 246 Pa                                    |
| Eficiencia recuperador/objetivo                                    | 75 / 73 %                                 |
| Vent. eta opt. EU:327/2011   | (8) 67,6% (16) 67%                        |
| Grado de eficiencia N  | (8) 79,6 / (16) 79                        |
| Vent. eta stat. eingebaut  | (8) 57,3% (16) 58,6%                      |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 523 / 1093 W/(m³/s)                       |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1,4 %                                     |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,87 %                                    |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



Ficha técnica

CL-0201 Esterilizacion limpio

Número de oferta

JP-49140 / 01

Fecha

25/06/2024



Cliente

GOC

Proyecto / Referencia

CL-0201 Esterilizacion limpio

LV-Pos./Adjunto

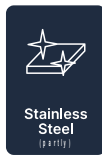
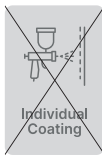
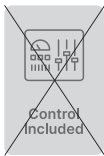
Su persona de contacto

Su referencia

Nuestro responsable del proyecto

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno  |
| Tamaño (Imp/Ret)                           | AHU TE EC 96   |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple  |
| Ubicación                                  | para interior  |
| Variante                                   | Estándar   |
| Tratamiento de la superficie de la carcasa | galvanizado  |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Deshumectar   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas  |



|   | Impulsión   | Retorno             |
|---|---|---------------------|
| Caudal de aire                                      | 5580 m³/h 1,55 m³/s   | 5301 m³/h 1,47 m³/s |
| Presión / pérdida de carga externa                  | 700 Pa  | 350 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,85 m/s  | 1,76 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,9 m/s (V3)  | 1,8 m/s (V2)        |
| Dimensiones (Largo,Ancho,Altura)                    | 7525 x 1017 x 2034 mm   |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 1751 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 9 A + Retorno: 3,8 A = 12,8 A  |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 5,7 KW + Retorno: 2,5 KW = 8,2 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 55,2 kW   |                     |
| Potencia de frío necesaria (BAF)                    | 35,25 kW  |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: B   |                     |
| Eficiencia energética RLT                           | A   |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.



Ficha técnica

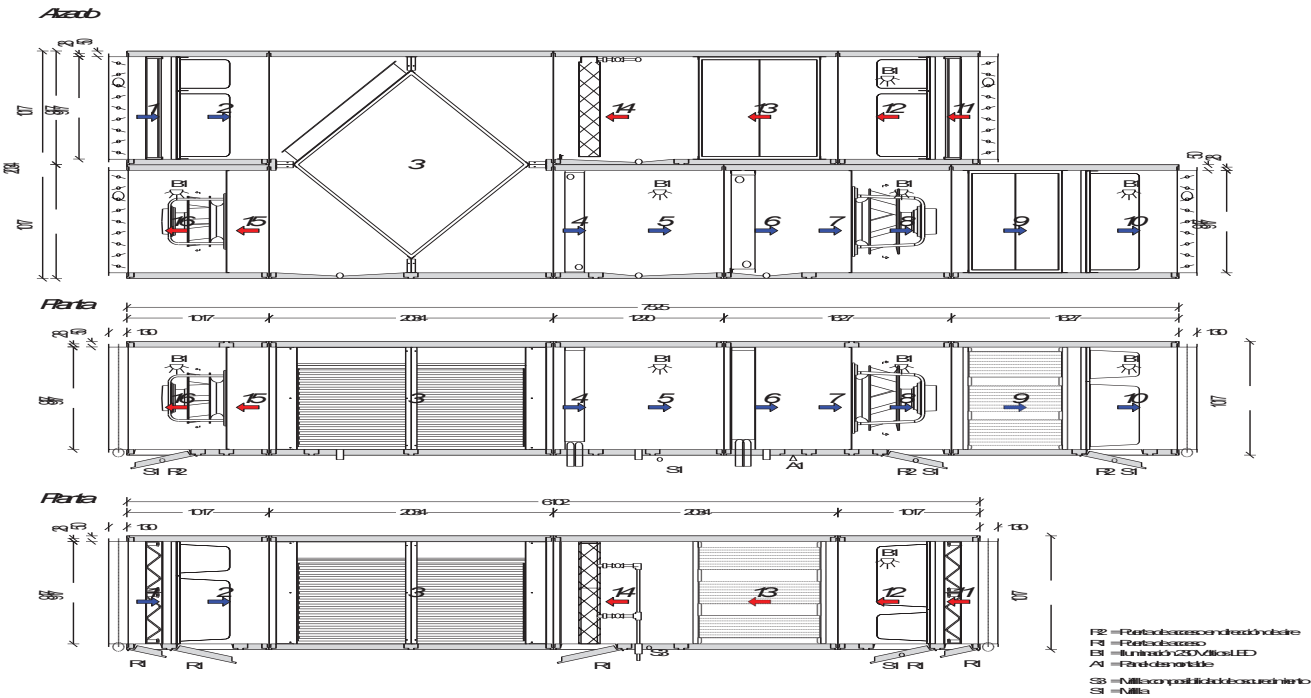
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Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890   | ISO Coarse 60% |
|--|----------------|
| Pérdida de carga inicial (limpio)  | 23 Pa          |
| Pérdida de carga seleccionada  | 46 Pa          |
| Pérdida de carga final   | 69 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 1,11 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 2 Pa           |

Acero inoxidable V2A suelo techo lateral  
 Filtro sin marco G4  
 Rieles para filtro de manta, Rieles de filtro de manta  
 Puerta de acceso

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 82 Pa        |
| Pérdida de carga seleccionada       | 132 Pa       |
| Pérdida de carga final              | 182 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 12,14 m²     |



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Acero inoxidable V2A suelo techo lateral  
Filtro de bolsa F7 (energía optimizada)  
Bastidor deslizante con palanca de sujeción, filtro extraíble  
Puerta de acceso

(3) Recuperador de calor de placas de alta eficacia, vertical

| Precalentamiento del aire exterior (WRG)  |           |
|---|-----------|
| Temperatura exterior  | -4,9 °C   |
| Humedad relativa de aire exterior   | 90 %      |
| Temperatura del retorno   | 22,0 °C   |
| Humedad relativa del retorno  | 50,0 %    |
| Datos referidos a la temperatura del aire exterior  |           |
| Temperatura del aire exterior mínima  | -7,0 °C   |
| Temperatura de impulsión  | 16,7 °C   |
| Humedad relativa de impulsión   | 19 %      |
| Grado de transferencia de temperatura seca según EN 308                                   | 73 %      |
| Factor de recuperación de calor   | 80 %      |
| Potencia térmica  | 40,6 kW   |
| Condensado  | 16,0 kg/h |
| Temperatura de descarga   | 5,6 °C    |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 196 Pa    |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 179 Pa    |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 1,00 kW   |
| Coeficiente de rendimiento  | 28,10     |
| Eficiencia energética   | 71 %      |
| Clase de recuperador según EN 13053/2020  | H2        |
| Máx. porcentaje de fugas  | 0,25 %    |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 81,2 %    |
| Preenfriamiento del aire exterior (WRG)   |           |
| Temperatura exterior  | 35,6 °C   |
| Humedad relativa de aire exterior   | 27,0 %    |
| Temperatura del retorno   | 24,0 °C   |
| Humedad relativa del retorno  | 40,0 %    |
| Temperatura de impulsión  | 27,3 °C   |
| Humedad relativa de impulsión   | 43 %      |
| Factor de recuperación de calor   | 71 %      |
| Potencia térmica  | 15,7 kW   |
| Condensado  | 0,0 kg/h  |
| Temperatura de descarga   | 32,7 °C   |

Acero inoxidable V2A suelo techo lateral  
No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.



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Intercambiador, KGXD con bypass, Paquete de placas SV-120/AX/0750"

Compuerta de by-pass estancia clase 2 según DIN EN 1751 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm

Bandeja de condensado, Bandeja con salida de condensados, Bandeja 1010

Salida de condensados: DN32, 1 1/4 Pulgadas

**(4) Batería de calor**

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 3 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/2 Pulgadas - 1 1/2 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 24,6 °C                         |
| Potencia (total)                      | 55,2 kW                         |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 3,21 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 30 Pa                           |
| Pérdida de carga en el lado del medio | 4,38 kPa                        |
| Velocidad del aire                    | 2,36 m/s                        |
| Contenido de agua                     | 7,09 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

Acero inoxidable V2A suelo techo lateral

Lacado

**(5) módulo vacío con bandeja 915 para humectador 37 Kg/h**

Acero inoxidable V2A suelo techo lateral

Bandeja en acero inoxidable 1009 KGT salida de condensados a la izquierda

Salida de condensados: DN32, 1 1/4 Pulgadas

Mirilla

Alumbrado, 230V LED, montado y cableado

**(6) Batería de frío**

|   |                                |
|---|--------------------------------|
| Tipo de batería                             | W/28/742/4R/16K/2.9Cu,12/Al-L1 |
| Conexión (entrada/salida)                   | DN 40, 1 1/2" - DN 40, 1 1/2"  |
| Temperatura de aire de entrada              | 36,5 °C                        |
| Humedad relativa                            | 27,0 %                         |
| Temperatura de aire de salida               | 18,1 °C                        |
| Humedad relativa                            | 79,3 %                         |
| Potencia (latente)                          | 0,03 kW                        |
| Potencia (sensible)                         | 35,22 kW                       |
| Potencia (total)                            | 35,25 kW                       |
| Pérdida de carga en el lado del aire (seco) | 61 Pa                          |
| Entrada del medio                           | 7 °C                           |
| Salida del medio                            | 12 °C                          |
| Cantidad de líquido                         | 6,06 m³/h                      |
| Pérdida de carga en el lado del medio       | 18,5 kPa                       |
| Velocidad del aire                          | 2,49 m/s                       |
| Contenido de agua                           | 12 l                           |



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|                   |           |
|-------------------|-----------|
| Densidad del aire | 1,2 kg/m³ |
|-------------------|-----------|

Acero inoxidable V2A suelo techo lateral  
 Rieles de acero inoxidable V2A  
 Bandeja en acero inoxidable 1006 KGT  
 Salida de condensados: DN32, 1 1/4 Pulgadas

(7) Módulo vacío 305

Acero inoxidable V2A suelo techo lateral

(8) Ventilador, Giro libre con motor EC

|  |                       |     |     |     |      |      |      |                   |           |
|--|-----------------------|-----|-----|-----|------|------|------|-------------------|-----------|
| Caudal de aire                               |                       |     |     |     |      |      |      | 5580              | m³/h      |
| Pérdida de carga externa                     |                       |     |     |     |      |      |      | 700               | Pa        |
| Presión interna del ventilador               |                       |     |     |     |      |      |      | 14                | Pa        |
| Pérdida de carga interna                     |                       |     |     |     |      |      |      | 674               | Pa        |
| Pérdida de carga dinámica                    |                       |     |     |     |      |      |      | 20                | Pa        |
| Pérdida de carga total                       |                       |     |     |     |      |      |      | 1408              | Pa        |
| Tipo de ventilador                           | VME500-5,7/400EC-2250 |     |     |     |      |      |      |                   |           |
| Número de revoluciones del ventilador        |                       |     |     |     |      |      |      | 1999              | 1/min     |
| Número de revoluciones máximo del ventilador |                       |     |     |     |      |      |      | 2250              | 1/min     |
| Rendimiento total                            |                       |     |     |     |      |      |      | 57,6              | %         |
| Corriente del motor                          |                       |     |     |     |      |      |      | 5,87              | A         |
| Corriente máxima del motor                   |                       |     |     |     |      |      |      | 9,00              | A         |
| Máxima potencia del motor                    |                       |     |     |     |      |      |      | 5,70              | kW        |
| Tensión del motor                            |                       |     |     |     |      |      |      | 3*400             | V         |
| Tensión de mando                             |                       |     |     |     |      |      |      | 7,67              | V         |
| Valor K                                      |                       |     |     |     |      |      |      | 281               |           |
| Clase de eficiencia energética               |                       |     |     |     |      |      |      | corresponde a IE5 |           |
| Potencia eléctrica activa Pm                 |                       |     |     |     |      |      |      | 3,79              | kW        |
| Potencia consumida en las condiciones SFPv   |                       |     |     |     |      |      |      | 3,38              | kW        |
| SFP (Potencia específica del ventilador)     |                       |     |     |     |      |      |      | 2,18              | kW/(m³/s) |
|  |                       |     |     |     |      |      |      | 0,606             | W/(m³/h)  |
| Tipo   |                       |     |     |     |      |      |      | 2138507           |           |
| SFP según EN 16798-3                         |                       |     |     |     |      |      |      | SFP4              |           |
| Clase-P según EN 13053 Pm ref: 4,47 kW       |                       |     |     |     |      |      |      | P1                |           |
| Densidad del aire                            |                       |     |     |     |      |      |      | 1,2               | kg/m³     |
| Frecuencia de octava [Hz]                    | 63                    | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000              | Suma      |
| Lw(A) lado de aspiración                     | 53                    | 79  | 79  | 78  | 80   | 80   | 75   | 71                | 87        |
| Lw(A) lado de impulsión                      | 55                    | 79  | 79  | 84  | 90   | 86   | 80   | 76                | 93        |

Acero inoxidable V2A suelo techo lateral  
 Toma de presión conducida hasta el exterior del equipo  
 Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
 Mirilla  
 Alumbrado, 230V LED, montado y cableado  
 Puerta de acceso, Puerta de acceso en dirección de aire



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**(9) Silenciador tipo 11**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 32 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

Acero inoxidable V2A suelo techo lateral

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11

Colisas del silenciador extraíbles para profundidad de 230 mm

**(10) Filtro ISO ePM1 85%**

|  |                      |
|--|----------------------|
| EN ISO 16890   | ISO ePM1 85%         |
| Pérdida de carga inicial (limpio)  | 123 Pa               |
| Pérdida de carga seleccionada  | 173 Pa               |
| Pérdida de carga final   | 223 Pa               |
| Energieverbrauch (Eurovent 4/21: -)  | 3081 kWh             |
| Superficie del filtro  | 12,14 m <sup>2</sup> |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                      |
| Pérdida de carga   | 2 Pa                 |

Acero inoxidable V2A suelo techo lateral

Filtro de bolsa F9 / 1,5 (energía optimizada)

Bastidor deslizante con palanca de sujeción / 1,5, Filtro 1,5 extraíble

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire

**Retorno****(3) Recuperador de calor de placas de alta eficacia, vertical**

Datos técnicos: véase la sección de impulsión

**(11) Filtro ISO polvo grueso 60%**

|  |                     |
|--|---------------------|
| EN ISO 16890   | ISO Coarse 60%      |
| Pérdida de carga inicial (limpio)  | 22 Pa               |
| Pérdida de carga seleccionada  | 44 Pa               |
| Pérdida de carga final   | 66 Pa               |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh               |
| Superficie del filtro  | 1,11 m <sup>2</sup> |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                     |
| Pérdida de carga   | 2 Pa                |

Acero inoxidable V2A suelo techo lateral

Filtro sin marco G4

Rieles para filtro de manta, Rieles de filtro de manta



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Puerta de acceso

**(12) Filtro ISO ePM1 50%**

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 78 Pa        |
| Pérdida de carga seleccionada       | 128 Pa       |
| Pérdida de carga final              | 178 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 12,14 m²     |

Acero inoxidable V2A suelo techo lateral

Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso

**(13) Silenciador tipo 2**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 10 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Acero inoxidable V2A suelo techo lateral

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2

Colisas del silenciador extraíbles para profundidad de 200 mm

**(14) Humectador adiabático de agua perdida**

|   |   |
|---|---|
| Medio   | HU-CEL  |
| Temperatura de entrada del aire                             | 26 °C   |
| Humedad relativa  | 40 %  |
| Temperatura de salida del aire                              | 17,8 °C   |
| Humedad relativa  | 91 %  |
| Velocidad del aire  | 2,3 m/s   |
| Capacidad de humectación                                    | 21,63 kg/h                                      |
| Pérdida de carga  | 45 Pa   |
| Cantidad de agua a intervalos para la humectación del medio | tres o cuatro veces la capacidad de humectación |
| Eficiencia del humectador                                   | 90 %  |
| Humidificación específica                                   | 3,4 g/kg  |

Acero inoxidable V2A suelo techo lateral

Mirilla con posibilidad de oscurecimiento

Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1

Rieles del KBF en acero inoxidable V2A

bandeja acero inoxidable 1009 KGT salida derecha

Salida de condensados: DN32, 1 1/4 Pulgadas

Puerta de acceso



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(15) Módulo vacío 305

Acero inoxidable V2A suelo techo lateral

(16) Ventilador, Giro libre con motor EC

|  |                        |           |     |     |      |      |      |      |      |
|--|------------------------|-----------|-----|-----|------|------|------|------|------|
| Caudal de aire   | 5301                   | m³/h      |     |     |      |      |      |      |      |
| Pérdida de carga externa   | 350                    | Pa        |     |     |      |      |      |      |      |
| Presión interna del ventilador   | 4                      | Pa        |     |     |      |      |      |      |      |
| Pérdida de carga interna   | 410                    | Pa        |     |     |      |      |      |      |      |
| Pérdida de carga dinámica  | 43                     | Pa        |     |     |      |      |      |      |      |
| Pérdida de carga total   | 807                    | Pa        |     |     |      |      |      |      |      |
| Tipo de ventilador   | VME400-2,50/400EC-2450 |           |     |     |      |      |      |      |      |
| Número de revoluciones del ventilador  | 2170                   | 1/min     |     |     |      |      |      |      |      |
| Número de revoluciones máximo del ventilador   | 2450                   | 1/min     |     |     |      |      |      |      |      |
| Rendimiento total  | 68,1                   | %         |     |     |      |      |      |      |      |
| Corriente del motor  | 2,67                   | A         |     |     |      |      |      |      |      |
| Corriente máxima del motor   | 3,80                   | A         |     |     |      |      |      |      |      |
| Máxima potencia del motor  | 2,50                   | kW        |     |     |      |      |      |      |      |
| Tensión del motor  | 3*400                  | V         |     |     |      |      |      |      |      |
| Tensión de mando   | 7,35                   | V         |     |     |      |      |      |      |      |
| Valor K  | 188                    |           |     |     |      |      |      |      |      |
| Clase de eficiencia energética   | corresponde a IE5      |           |     |     |      |      |      |      |      |
| Potencia eléctrica activa Pm   | 1,75                   | kW        |     |     |      |      |      |      |      |
| Potencia consumida en las condiciones SFPv   | 1,57                   | kW        |     |     |      |      |      |      |      |
| SFP (Potencia específica del ventilador)   | 1,06                   | kW/(m³/s) |     |     |      |      |      |      |      |
|  | 0,296                  | W/(m³/h)  |     |     |      |      |      |      |      |
| Tipo   | 2138501                |           |     |     |      |      |      |      |      |
| SFP según EN 16798-3   | SFP1                   |           |     |     |      |      |      |      |      |
| Clase-P según EN 13053 Pm ref: 2,47 kW   | P1                     |           |     |     |      |      |      |      |      |
| Densidad del aire  | 1,2                    | kg/m³     |     |     |      |      |      |      |      |
| Frecuencia de octava [Hz]  | 63                     | 125       | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Suma |
| Lw(A) lado de aspiración   | 41                     | 61        | 65  | 69  | 73   | 72   | 73   | 63   | 78   |
| Lw(A) lado de impulsión  | 44                     | 61        | 66  | 75  | 80   | 77   | 77   | 68   | 84   |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 917 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                        |           |     |     |      |      |      |      |      |
| Pérdida de carga   | 2                      | Pa        |     |     |      |      |      |      |      |

Acero inoxidable V2A suelo techo lateral

Toma de presión conducida hasta el exterior del equipo

Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire

Resumen de accesorios

Acero inoxidable V2A suelo techo lateral

5 Alumbrado, 230V LED, montado y cableado



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5 Mirilla

1 Mirilla con posibilidad de oscurecimiento

1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

2 Puerta de acceso

6 Puerta de acceso

2 Toma de presión conducida hasta el exterior del equipo

## Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

| Tipo de equipo   | Unidad de ventilación bidireccional (UVB) |
|--|---|
| Sistema de recuperación  | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.  | 82 / 44 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.                                      | 196 / 179 Pa                              |
| DeltaPs,int  | 501 Pa                                    |
| DeltaPs, adicional   | 388 Pa                                    |
| Eficiencia recuperador/objetivo                                    | 73 / 73 %                                 |
| Vent. eta opt. EU:327/2011   | (8) 69,2% (16) 69,1%                      |
| Grado de eficiencia N  | (8) 71,7 / (16) 75,5                      |
| Vent. eta stat. eingebaut  | (8) 56,2% (16) 64,1%                      |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 842 / 873 W/(m³/s)                        |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1,04 %                                    |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,64 %                                    |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



Ficha técnica  
CL-0102 PREPARACION QUIROFANOS



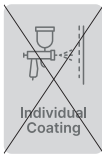
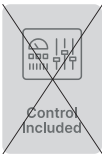
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|                        |                                |                                  |
|------------------------|--------------------------------|----------------------------------|
| Cliente                | Proyecto / Referencia          | LV-Pos./Adjunto                  |
| GOC                    | CL-0102 PREPARACION QUIROFANOS |                                  |
| Su persona de contacto | Su referencia                  | Nuestro responsable del proyecto |

El equipo en un vistazo

|  |  |
|--|--|
| Tipo del flujo de aire                     | Impulsión y retorno                            |
| Tamaño (Imp/Ret)                           | AHU TE EC 110                                  |
| Variante de equipo                         | TE EC  |
| Disposición                                | Horizontal simple                              |
| Ubicación                                  | para interior                                  |
| Variante                                   | Estándar                                       |
| Tratamiento de la superficie de la carcasa | galvanizado                                    |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Recuperación de calor |
| Recuperación de calor                      | Recuperador de placas                          |



|   |   |                     |
|---|---|---------------------|
|   | Impulsión   | Retorno             |
| Caudal de aire                                      | 6480 m³/h 1,80 m³/s   | 6156 m³/h 1,71 m³/s |
| Presión / pérdida de carga externa                  | 600 Pa  | 175 Pa              |
| Velocidad del aire Etiqueta energética Eurovent     | 1,93 m/s  | 1,84 m/s            |
| Velocidad del aire (clase según DIN EN 13053)       | 1,9 m/s (V3)  | 1,8 m/s (V2)        |
| Dimensiones (Largo,Ancho,Altura)                    | 7118 x 1627 x 1424 mm   |                     |
| Bancada   | no incluido   |                     |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                     |
| Peso  | 1943 kg   |                     |
| Corriente máxima consumida de los ventiladores      | Impulsión: 9,2 A + Retorno: 3,8 A = 13 A  |                     |
| Potencia máxima conectada de los ventiladores       | Impulsión: 5,9 KW + Retorno: 2,5 KW = 8,4 KW  |                     |
| Potencia de calor necesaria (BAC)                   | 62,8 kW   |                     |
| Potencia de frío necesaria (BAF)                    | 42,63 kW  |                     |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: B   |                     |
| Eficiencia energética RLT                           | A   |                     |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                     |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.



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Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890   | ISO Coarse 60% |
|--|----------------|
| Pérdida de carga inicial (limpio)  | 24 Pa          |
| Pérdida de carga seleccionada  | 48 Pa          |
| Pérdida de carga final   | 72 Pa          |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh          |
| Superficie del filtro  | 1,26 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga   | 3 Pa           |

Acero inoxidable V2A suelo techo lateral  
Filtro sin marco G4  
Rieles para filtro de manta, Rieles de filtro de manta  
Puerta de acceso

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 85 Pa        |
| Pérdida de carga seleccionada       | 135 Pa       |
| Pérdida de carga final              | 185 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 13,48 m²     |



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Acero inoxidable V2A suelo techo lateral  
 Filtro de bolsa F7 (energía optimizada)  
 Bastidor deslizante con palanca de sujeción, filtro extraíble  
 Puerta de acceso

(3) Recuperador de calor de placas de alta eficacia, vertical

| Precalentamiento del aire exterior (WRG)  |           |
|---|-----------|
| Temperatura exterior  | -4,9 °C   |
| Humedad relativa de aire exterior   | 90 %      |
| Temperatura del retorno   | 22,0 °C   |
| Humedad relativa del retorno  | 50,0 %    |
| Datos referidos a la temperatura del aire exterior  |           |
| Temperatura del aire exterior mínima  | -5,0 °C   |
| Temperatura de impulsión  | 16,7 °C   |
| Humedad relativa de impulsión   | 19 %      |
| Grado de transferencia de temperatura seca según EN 308                                   | 74 %      |
| Factor de recuperación de calor   | 80 %      |
| Potencia térmica  | 47,1 kW   |
| Condensado  | 19,0 kg/h |
| Temperatura de descarga   | 5,7 °C    |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 186 Pa    |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 170 Pa    |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 1,10 kW   |
| Coeficiente de rendimiento  | 29,90     |
| Eficiencia energética   | 71 %      |
| Clase de recuperador según EN 13053/2020  | H2        |
| Máx. porcentaje de fugas  | 0,25 %    |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 81,6 %    |
| Preenfriamiento del aire exterior (WRG)   |           |
| Temperatura exterior  | 35,6 °C   |
| Humedad relativa de aire exterior   | 27,0 %    |
| Temperatura del retorno   | 24,0 °C   |
| Humedad relativa del retorno  | 40,0 %    |
| Temperatura de impulsión  | 27,3 °C   |
| Humedad relativa de impulsión   | 43 %      |
| Factor de recuperación de calor   | 72 %      |
| Potencia térmica  | 18,4 kW   |
| Condensado  | 0,0 kg/h  |
| Temperatura de descarga   | 32,7 °C   |

Acero inoxidable V2A suelo techo lateral  
 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.



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Intercambiador, KGXD con bypass, Paquete de placas KV-085/P1-750 + KV-085/P1-500  
Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 10 Nm par de giro / eje de accionamiento 15 x 15 mm  
Bandeja 1608 KGT  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Alumbrado, 230V LED, montado y cableado

(4) Batería de calor

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 3 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/2 Pulgadas - 1 1/2 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 24 °C                           |
| Potencia (total)                      | 62,8 kW                         |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 3,65 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 48 Pa                           |
| Pérdida de carga en el lado del medio | 5,32 kPa                        |
| Velocidad del aire                    | 2,37 m/s                        |
| Contenido de agua                     | 8,2 l                           |
| Densidad del aire                     | 1,2 kg/m³                       |

Acero inoxidable V2A suelo techo lateral  
Lacado

(5) módulo vacío con bandeja 915 para humectador 39,8 Kg/h

Acero inoxidable V2A suelo techo lateral  
Bandeja en acero inoxidable 1609 KGT salida de condensados a la izquierda  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Mirilla  
Alumbrado, 230V LED, montado y cableado

(6) Batería de frío

|   |                                  |
|---|----------------------------------|
| Tipo de batería                             | W/22/1362/4R/26K/2.6Cu,9.5/Al-L1 |
| Conexión (entrada/salida)                   | DN 40, 1 1/2" - DN 40, 1 1/2"    |
| Temperatura de aire de entrada              | 36,5 °C                          |
| Humedad relativa                            | 27,0 %                           |
| Temperatura de aire de salida               | 17,3 °C                          |
| Humedad relativa                            | 83,5 %                           |
| Potencia (sensible)                         | 42,63 kW                         |
| Potencia (total)                            | 42,63 kW                         |
| Pérdida de carga en el lado del aire (seco) | 72 Pa                            |
| Entrada del medio                           | 7 °C                             |
| Salida del medio                            | 12 °C                            |
| Cantidad de líquido                         | 7,33 m³/h                        |
| Pérdida de carga en el lado del medio       | 18,2 kPa                         |
| Velocidad del aire                          | 2,4 m/s                          |
| Contenido de agua                           | 9,8 l                            |



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|                   |           |
|-------------------|-----------|
| Densidad del aire | 1,2 kg/m³ |
|-------------------|-----------|

Acero inoxidable V2A suelo techo lateral  
Rieles de acero inoxidable V2A  
Bandeja en acero inoxidable 1606 KGT  
Salida de condensados: DN32, 1 1/4 Pulgadas

(7) Módulo vacío 305

Acero inoxidable V2A suelo techo lateral

(8) Ventilador, Giro libre con motor EC

|  |   |
|--|---|
| Caudal de aire                               | 6480 m³/h                               |
| Pérdida de carga externa                     | 600 Pa                                  |
| Presión interna del ventilador               | 5 Pa                                    |
| Pérdida de carga interna                     | 708 Pa                                  |
| Pérdida de carga dinámica                    | 46 Pa                                   |
| Pérdida de carga total                       | 1359 Pa                                 |
| Tipo de ventilador                           | VME310-2,95/400EC-4000                  |
| Número de revoluciones del ventilador        | 3454 1/min                              |
| Número de revoluciones máximo del ventilador | 4000 1/min                              |
| Rendimiento total                            | 62,9 %                                  |
| Corriente del motor                          | 2 x 3,01 A                              |
| Corriente máxima del motor                   | 2 x 4,60 A                              |
| Máxima potencia del motor                    | 2 x 2,95 kW                             |
| Tensión del motor                            | 3*400 V                                 |
| Tensión de mando                             | 7,61 V                                  |
| Valor K                                      | 116                                     |
| Clase de eficiencia energética               | corresponde a IE5                       |
| Potencia eléctrica activa Pm                 | 2 x 1,94 kW                             |
| Potencia consumida en las condiciones SFPv   | 2 x 1,76 kW                             |
| SFP (Potencia específica del ventilador)     | 1,95 kW/(m³/s)                          |
|  | 0,543 W/(m³/h)                          |
| Tipo   | 2138685                                 |
| SFP según EN 16798-3                         | SFP4                                    |
| Clase-P según EN 13053 Pm ref: 2,44 kW       | P1                                      |
| Densidad del aire                            | 1,2 kg/m³                               |
| Frecuencia de octava [Hz]                    | 63 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración                     | 49 62 81 80 77 80 80 73 87              |
| Lw(A) lado de impulsión                      | 53 62 80 82 86 86 87 79 92              |

Acero inoxidable V2A suelo techo lateral  
Toma de presión conducida hasta el exterior del equipo  
2 x Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire



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**(9) Silenciador tipo 11**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 35 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

Acero inoxidable V2A suelo techo lateral

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11

Colisas del silenciador extraíbles para profundidad de 230 mm

**(10) Filtro ISO ePM1 85%**

|  |                      |
|--|----------------------|
| EN ISO 16890   | ISO ePM1 85%         |
| Pérdida de carga inicial (limpio)  | 128 Pa               |
| Pérdida de carga seleccionada  | 178 Pa               |
| Pérdida de carga final   | 228 Pa               |
| Energieverbrauch (Eurovent 4/21: -)  | 3081 kWh             |
| Superficie del filtro  | 13,48 m <sup>2</sup> |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |                      |
| Pérdida de carga   | 3 Pa                 |

Acero inoxidable V2A suelo techo lateral

Filtro de bolsa F9 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire

**Retorno****(3) Recuperador de calor de placas de alta eficacia, vertical**

Datos técnicos: véase la sección de impulsión

**(11) Filtro ISO polvo grueso 60%**

|  |                     |
|--|---------------------|
| EN ISO 16890   | ISO Coarse 60%      |
| Pérdida de carga inicial (limpio)  | 23 Pa               |
| Pérdida de carga seleccionada  | 46 Pa               |
| Pérdida de carga final   | 69 Pa               |
| Energieverbrauch (Eurovent 4/21: -)  | - kWh               |
| Superficie del filtro  | 1,26 m <sup>2</sup> |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |                     |
| Pérdida de carga   | 2 Pa                |

Acero inoxidable V2A suelo techo lateral

Filtro sin marco G4

Rieles para filtro de manta, Rieles de filtro de manta



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Puerta de acceso

**(12) Filtro ISO ePM1 50%**

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 81 Pa        |
| Pérdida de carga seleccionada       | 131 Pa       |
| Pérdida de carga final              | 181 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 13,48 m²     |

Acero inoxidable V2A suelo techo lateral

Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso

**(13) Silenciador tipo 2**

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 11 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Acero inoxidable V2A suelo techo lateral

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2

Colisas del silenciador extraíbles para profundidad de 200 mm

**(14) Humectador adiabático de agua perdida**

|   |   |
|---|---|
| Medio   | HU-CEL  |
| Temperatura de entrada del aire                             | 26 °C   |
| Humedad relativa  | 40 %  |
| Temperatura de salida del aire                              | 17,9 °C   |
| Humedad relativa  | 91 %  |
| Velocidad del aire  | 2,7 m/s   |
| Capacidad de humectación                                    | 25,12 kg/h                                      |
| Pérdida de carga  | 60 Pa   |
| Cantidad de agua a intervalos para la humectación del medio | tres o cuatro veces la capacidad de humectación |
| Eficiencia del humectador                                   | 89 %  |
| Humidificación específica                                   | 3,4 g/kg  |

Acero inoxidable V2A suelo techo lateral

Mirilla con posibilidad de oscurecimiento

Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1

Rieles del KBF en acero inoxidable V2A

bandeja acero inoxidable 1609 KGT salida derecha

Salida de condensados: DN32, 1 1/4 Pulgadas

Puerta de acceso



(15) Módulo vacío 305

Acero inoxidable V2A suelo techo lateral

(16) Ventilador, Giro libre con motor EC

|  |                        |                                      |
|--|------------------------|--------------------------------------|
| Caudal de aire   | 6156                   | m³/h                                 |
| Pérdida de carga externa   | 175                    | Pa                                   |
| Presión interna del ventilador   | 6                      | Pa                                   |
| Pérdida de carga interna   | 422                    | Pa                                   |
| Pérdida de carga dinámica  | 58                     | Pa                                   |
| Pérdida de carga total   | 661                    | Pa                                   |
| Tipo de ventilador   | VME400-2,50/400EC-2450 |                                      |
| Número de revoluciones del ventilador  | 2149                   | 1/min                                |
| Número de revoluciones máximo del ventilador   | 2450                   | 1/min                                |
| Rendimiento total  | 69,1                   | %                                    |
| Corriente del motor  | 2,51                   | A                                    |
| Corriente máxima del motor   | 3,80                   | A                                    |
| Máxima potencia del motor  | 2,50                   | kW                                   |
| Tensión del motor  | 3*400                  | V                                    |
| Tensión de mando   | 7,23                   | V                                    |
| Valor K  | 188                    |                                      |
| Clase de eficiencia energética   | corresponde a IE5      |                                      |
| Potencia eléctrica activa Pm   | 1,64                   | kW                                   |
| Potencia consumida en las condiciones SFPv   | 1,47                   | kW                                   |
| SFP (Potencia específica del ventilador)   | 0,86                   | kW/(m³/s)                            |
|  | 0,238                  | W/(m³/h)                             |
| Tipo   | 2138501                |                                      |
| SFP según EN 16798-3   | SFP0                   |                                      |
| Clase-P según EN 13053 Pm ref: 2,26 kW   | P1                     |                                      |
| Densidad del aire  | 1,2                    | kg/m³                                |
| Frecuencia de octava [Hz]  | 63                     | 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración   | 38                     | 56 64 68 73 71 76 65 79              |
| Lw(A) lado de impulsión  | 40                     | 57 64 72 80 77 79 69 84              |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 612 x 1527 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm |                        |                                      |
| Pérdida de carga   | 2                      | Pa                                   |

Acero inoxidable V2A suelo techo lateral  
Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire

Resumen de accesorios

- Acero inoxidable V2A suelo techo lateral
- 6 Alumbrado, 230V LED, montado y cableado



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5 Mirilla

1 Mirilla con posibilidad de oscurecimiento

1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

2 Puerta de acceso

6 Puerta de acceso

2 Toma de presión conducida hasta el exterior del equipo

## Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

| Tipo de equipo   | Unidad de ventilación bidireccional (UVB) |
|--|---|
| Sistema de recuperación  | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret.  | 85 / 46 Pa                                |
| DeltaP WRG (seco) Imp. / Ret.                                      | 186 / 170 Pa                              |
| DeltaPs,int  | 487 Pa                                    |
| DeltaPs, adicional   | 446 Pa                                    |
| Eficiencia recuperador/objetivo                                    | 74 / 73 %                                 |
| Vent. eta opt. EU:327/2011   | (8) 66,1% (16) 69,1%                      |
| Grado de eficiencia N  | (8) 71,7 / (16) 75,5                      |
| Vent. eta stat. eingebaut  | (8) 60,6% (16) 62,4%                      |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 794 / 867 W/(m³/s)                        |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1,01 %                                    |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,62 %                                    |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.

El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



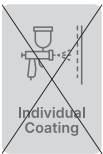
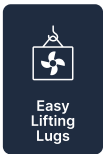
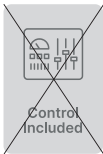
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|                        |   |                                  |
|------------------------|---|----------------------------------|
| Cliente<br>GOC         | Proyecto / Referencia<br>CL-0101 consultas oftalmologicas | LV-Pos./Adjunto                  |
| Su persona de contacto | Su referencia   | Nuestro responsable del proyecto |

El equipo en un vistazo

|  |   |
|--|---|
| Tipo del flujo de aire                     | Impulsión y retorno                                     |
| Tamaño (Imp/Ret)                           | AHUW TE EC 130  |
| Variante de equipo                         | TE EC   |
| Disposición                                | Horizontal simple                                       |
| Ubicación                                  | Instalación en el exterior (resistente a la intemperie) |
| Variante                                   | Estándar  |
| Tratamiento de la superficie de la carcasa | galvanizado   |
| Etapas del tratamiento del aire            | Filtros   Calor   Frío   Recuperación de calor          |
| Recuperación de calor                      | Recuperador de placas                                   |

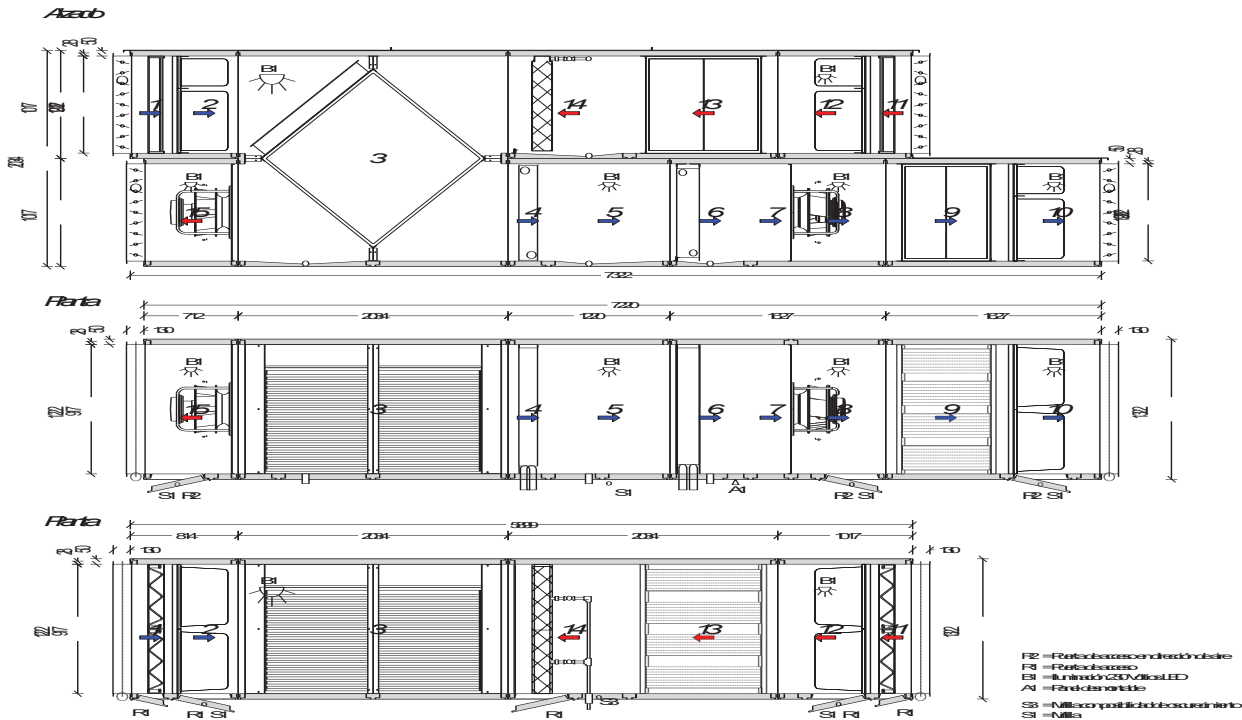


|   | Impulsión   | Retorno              |
|---|---|----------------------|
| Caudal de aire                                      | 7056 m³/h  1,96 m³/s  | 6703 m³/h  1,86 m³/s |
| Presión / pérdida de carga externa                  | 200 Pa  | 250 Pa               |
| Velocidad del aire Etiqueta energética Eurovent     | 1,76 m/s  | 1,67 m/s             |
| Velocidad del aire (clase según DIN EN 13053)       | 1,8 m/s (V2)  | 1,7 m/s (V2)         |
| Dimensiones (Largo,Ancho,Altura)                    | 7322 x 1322 x 2034 mm   |                      |
| Bancada   | no incluido   |                      |
| Tipo de revestimiento                               | Pared doble, aislamiento de 50 mm Lana mineral, A1 (incombustible según EN 13501-1), conductividad térmica= 0,03 W/mK |                      |
| Peso  | 2100 kg   |                      |
| Corriente máxima consumida de los ventiladores      | Impulsión: 5,5 A + Retorno: 3,8 A = 9,3 A   |                      |
| Potencia máxima conectada de los ventiladores       | Impulsión: 3,65 KW + Retorno: 2,5 KW = 6,15 KW  |                      |
| Potencia de calor necesaria (BAC)                   | 68,38 kW  |                      |
| Potencia de frío necesaria (BAF)                    | 41,85 kW  |                      |
| Eficiencia energética Eurovent    Modell: AHU-TE EC | Invierno: A   |                      |
| Eficiencia energética RLT                           | A+  |                      |
| Valores característicos                             | según DIN EN 1886: T2, TB 2, D1, L1, F9;  |                      |



La información resumida en esta página se proporciona como una visión general y destaca las características importantes que en algunos casos sólo se aplican a partes del dispositivo en general. El diseño y el equipamiento exactos de las distintas unidades funcionales se describen en el apartado "Datos técnicos". Los símbolos en gris y tachados indican las opciones disponibles que no han sido seleccionadas por el cliente.





Datos técnicos

Impulsión

(1) Filtro ISO polvo grueso 60%

| EN ISO 16890  | ISO Coarse 60% |
|---|----------------|
| Pérdida de carga inicial (limpio)   | 22 Pa          |
| Pérdida de carga seleccionada   | 44 Pa          |
| Pérdida de carga final  | 66 Pa          |
| Energieverbrauch (Eurovent 4/21: -)   | - kWh          |
| Superficie del filtro   | 1,54 m²        |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                |
| Pérdida de carga  | 2 Pa           |

Filtro sin marco G4  
 Rieles para filtro de manta, Rieles de filtro de manta  
 Puerta de acceso, Sujeta puerta - palanca de cierre

(2) Filtro ISO ePM1 50%

| EN ISO 16890                        | ISO ePM1 50% |
|-------------------------------------|--------------|
| Pérdida de carga inicial (limpio)   | 77 Pa        |
| Pérdida de carga seleccionada       | 127 Pa       |
| Pérdida de carga final              | 177 Pa       |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh     |
| Superficie del filtro               | 16,18 m²     |



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Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Puerta de acceso, Sujeta puerta - palanca de cierre

**(3) Recuperador de calor de placas de alta eficacia, vertical****Precalentamiento del aire exterior (WRG)**

|   |           |
|---|-----------|
| Temperatura exterior  | -4,9 °C   |
| Humedad relativa de aire exterior   | 90 %      |
| Temperatura del retorno   | 22,0 °C   |
| Humedad relativa del retorno  | 50,0 %    |
| Datos referidos a la temperatura del aire exterior  |           |
| Temperatura del aire exterior mínima  | -7,0 °C   |
| Temperatura de impulsión  | 16,8 °C   |
| Humedad relativa de impulsión   | 19 %      |
| Grado de transferencia de temperatura seca según EN 308                                   | 73 %      |
| Factor de recuperación de calor   | 81 %      |
| Potencia térmica  | 51,5 kW   |
| Condensado  | 21,0 kg/h |
| Temperatura de descarga   | 5,6 °C    |
| Pérdida de carga en impulsión (Densidad estándar Rho 1,2)                                 | 173 Pa    |
| Pérdida de carga en retorno (Densidad estándar Rho 1,2)                                   | 158 Pa    |
| Consumo de energía eléctrica debido a la pérdida de presión                               | 1,10 kW   |
| Coeficiente de rendimiento  | 31,90     |
| Eficiencia energética   | 71 %      |
| Clase de recuperador según EN 13053/2020  | H2        |
| Máx. porcentaje de fugas  | 0,25 %    |
| Tasa de recuperación de calor (calculado mediante la fórmula del Instituto Passive House) | 81,4 %    |

**Preenfriamiento del aire exterior (WRG)**

|                                   |          |
|-----------------------------------|----------|
| Temperatura exterior              | 35,6 °C  |
| Humedad relativa de aire exterior | 27,0 %   |
| Temperatura del retorno           | 24,0 °C  |
| Humedad relativa del retorno      | 40,0 %   |
| Temperatura de impulsión          | 27,3 °C  |
| Humedad relativa de impulsión     | 43 %     |
| Factor de recuperación de calor   | 71 %     |
| Potencia térmica                  | 19,9 kW  |
| Condensado                        | 0,0 kg/h |
| Temperatura de descarga           | 32,7 °C  |

No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.

Intercambiador, KGXD con bypass, Paquete de placas SV-120/AX/1000"

Compuerta de by-pass estanca clase 2 según DIN EN 1751 / 15 Nm par de giro / eje de accionamiento 15 x 15 mm



Bandeja de condensado, Bandeja con salida de condensados, Bandeja Alu 1310 KGT  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Alumbrado, 230V LED, montado y cableado

(4) Batería de calor

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Tipo de batería                       | 3 Cu/Al LT                      |
| Conexión (entrada/salida)             | 1 1/2 Pulgadas - 1 1/2 Pulgadas |
| Temperatura de aire de entrada        | -4,9 °C                         |
| Temperatura de aire de salida         | 24 °C                           |
| Potencia (total)                      | 68,38 kW                        |
| Entrada del medio                     | 60 °C                           |
| Salida del medio                      | 45 °C                           |
| Cantidad de líquido                   | 3,98 m³/h                       |
| Protección antihielo                  | 0 %                             |
| Pérdida de carga en el lado del aire  | 26 Pa                           |
| Pérdida de carga en el lado del medio | 7,76 kPa                        |
| Velocidad del aire                    | 2,15 m/s                        |
| Contenido de agua                     | 9,83 l                          |
| Densidad del aire                     | 1,2 kg/m³                       |

(5) módulo vacío con bandeja 915 para humectador 41,9 Kg/h

Bandeja en acero inoxidable 1309 KGT salida de condensados a la izquierda  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Mirilla  
Alumbrado, 230V LED, montado y cableado

(6) Batería de frío

|   |                                 |
|---|---------------------------------|
| Tipo de batería                             | W/28/1047/3R/17K/2.6Cu,12/Al-L1 |
| Conexión (entrada/salida)                   | DN 40, 1 1/2" - DN 40, 1 1/2"   |
| Temperatura de aire de entrada              | 36,5 °C                         |
| Humedad relativa                            | 27,0 %                          |
| Temperatura de aire de salida               | 19,2 °C                         |
| Humedad relativa                            | 74,1 %                          |
| Potencia (sensible)                         | 41,85 kW                        |
| Potencia (total)                            | 41,85 kW                        |
| Pérdida de carga en el lado del aire (seco) | 44 Pa                           |
| Entrada del medio                           | 7 °C                            |
| Salida del medio                            | 12 °C                           |
| Cantidad de líquido                         | 7,19 m³/h                       |
| Pérdida de carga en el lado del medio       | 20,8 kPa                        |
| Velocidad del aire                          | 2,23 m/s                        |
| Contenido de agua                           | 12,1 l                          |
| Densidad del aire                           | 1,2 kg/m³                       |

Rieles de acero inoxidable V2A  
Bandeja en acero inoxidable 1306 KGT  
Salida de condensados: DN32, 1 1/4 Pulgadas



(7) Módulo vacío 305

(8) Ventilador, Giro libre con motor EC

|  |                        |     |     |     |      |      |      |                   |           |
|--|------------------------|-----|-----|-----|------|------|------|-------------------|-----------|
| Caudal de aire                               |                        |     |     |     |      |      |      | 7056              | m³/h      |
| Pérdida de carga externa                     |                        |     |     |     |      |      |      | 200               | Pa        |
| Presión interna del ventilador               |                        |     |     |     |      |      |      | 8                 | Pa        |
| Pérdida de carga interna                     |                        |     |     |     |      |      |      | 612               | Pa        |
| Pérdida de carga dinámica                    |                        |     |     |     |      |      |      | 76                | Pa        |
| Pérdida de carga total                       |                        |     |     |     |      |      |      | 896               | Pa        |
| Tipo de ventilador                           | VMF400-3,65/400EC-2800 |     |     |     |      |      |      |                   |           |
| Número de revoluciones del ventilador        |                        |     |     |     |      |      |      | 2462              | 1/min     |
| Número de revoluciones máximo del ventilador |                        |     |     |     |      |      |      | 2800              | 1/min     |
| Rendimiento total                            |                        |     |     |     |      |      |      | 67,8              | %         |
| Corriente del motor                          |                        |     |     |     |      |      |      | 4,00              | A         |
| Corriente máxima del motor                   |                        |     |     |     |      |      |      | 5,50              | A         |
| Máxima potencia del motor                    |                        |     |     |     |      |      |      | 3,65              | kW        |
| Tensión del motor                            |                        |     |     |     |      |      |      | 3*400             | V         |
| Tensión de mando                             |                        |     |     |     |      |      |      | 7,34              | V         |
| Valor K                                      |                        |     |     |     |      |      |      | 188               |           |
| Clase de eficiencia energética               |                        |     |     |     |      |      |      | corresponde a IE5 |           |
| Potencia eléctrica activa Pm                 |                        |     |     |     |      |      |      | 2,59              | kW        |
| Potencia consumida en las condiciones SFPv   |                        |     |     |     |      |      |      | 2,26              | kW        |
| SFP (Potencia específica del ventilador)     |                        |     |     |     |      |      |      | 1,16              | kW/(m³/s) |
|  |                        |     |     |     |      |      |      | 0,321             | W/(m³/h)  |
| Tipo   |                        |     |     |     |      |      |      | 2139790           |           |
| SFP según EN 16798-3                         |                        |     |     |     |      |      |      | SFP2              |           |
| Clase-P según EN 13053 Pm ref: 3,4 kW        |                        |     |     |     |      |      |      | P1                |           |
| Densidad del aire                            |                        |     |     |     |      |      |      | 1,2               | kg/m³     |
| Frecuencia de octava [Hz]                    | 63                     | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000              | Suma      |
| Lw(A) lado de aspiración                     | 47                     | 63  | 72  | 77  | 75   | 75   | 75   | 75                | 83        |
| Lw(A) lado de impulsión                      | 51                     | 62  | 72  | 79  | 83   | 86   | 81   | 77                | 89        |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire, Sujeta puerta - palanca de cierre

(9) Silenciador tipo 11

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 28 Pa   |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4 dB                             | 8 dB   | 18 dB  | 21 dB  | 23 dB   | 17 dB   | 13 dB   | 14 dB   |

tipo 11 colisas, Colisas del silenciador recubiertas de fibra de vidrio tipo 11  
Colisas del silenciador extraíbles para profundidad de 230 mm



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**(10) Filtro ISO ePM1 85%**

| EN ISO 16890  | ISO ePM1 85%         |
|---|----------------------|
| Pérdida de carga inicial (limpio)   | 116 Pa               |
| Pérdida de carga seleccionada   | 166 Pa               |
| Pérdida de carga final  | 216 Pa               |
| Energieverbrauch (Eurovent 4/21: -)   | 3081 kWh             |
| Superficie del filtro   | 16,18 m <sup>2</sup> |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                      |
| Pérdida de carga  | 2 Pa                 |

Filtro de bolsa F9 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble

Mirilla

Alumbrado, 230V LED, montado y cableado

Puerta de acceso, Puerta de acceso en dirección de aire, Sujeta puerta - palanca de cierre

**Retorno****(3) Recuperador de calor de placas de alta eficacia, vertical**

Datos técnicos: véase la sección de impulsión

**(11) Filtro ISO polvo grueso 60%**

| EN ISO 16890  | ISO Coarse 60%      |
|---|---------------------|
| Pérdida de carga inicial (limpio)   | 21 Pa               |
| Pérdida de carga seleccionada   | 42 Pa               |
| Pérdida de carga final  | 63 Pa               |
| Energieverbrauch (Eurovent 4/21: -)   | - kWh               |
| Superficie del filtro   | 1,54 m <sup>2</sup> |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                     |
| Pérdida de carga  | 2 Pa                |

Filtro sin marco G4

Rieles para filtro de manta, Rieles de filtro de manta

Puerta de acceso, Sujeta puerta - palanca de cierre

**(12) Filtro ISO ePM1 50%**

| EN ISO 16890                        | ISO ePM1 50%         |
|-------------------------------------|----------------------|
| Pérdida de carga inicial (limpio)   | 74 Pa                |
| Pérdida de carga seleccionada       | 124 Pa               |
| Pérdida de carga final              | 174 Pa               |
| Energieverbrauch (Eurovent 4/21: -) | 1660 kWh             |
| Superficie del filtro               | 16,18 m <sup>2</sup> |

Filtro de bolsa F7 (energía optimizada)

Bastidor deslizante con palanca de sujeción, filtro extraíble





Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Sujeta puerta - palanca de cierre

(13) Silenciador tipo 2

|                                  |        |        |        |         |         |         |         |
|----------------------------------|--------|--------|--------|---------|---------|---------|---------|
| Pérdida de carga seleccionada    |        |        |        |         |         |         | 9 Pa    |
| Introducción de la amortiguación |        |        |        |         |         |         |         |
| 63 Hz                            | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 3 dB                             | 8 dB   | 19 dB  | 20 dB  | 23 dB   | 17 dB   | 12 dB   | 10 dB   |

Tipo 2 Bastidores, Colisas del silenciador recubiertas de fibra de vidrio tipo 2  
Colisas del silenciador extraíbles para profundidad de 200 mm

(14) Humectador adiabático de agua perdida

|  |            |
|--|------------|
| Medio  | HU-CEL     |
| Temperatura de entrada del aire  | 26 °C      |
| Humedad relativa   | 40 %       |
| Temperatura de salida del aire   | 17,8 °C    |
| Humedad relativa   | 91 %       |
| Velocidad del aire   | 2,2 m/s    |
| Capacidad de humectación   | 27,35 kg/h |
| Pérdida de carga   | 40 Pa      |
| Cantidad de agua a intervalos para la humectación del medio    tres o cuatro veces la capacidad de humectación |            |
| Eficiencia del humectador  | 90 %       |
| Humidificación específica  | 3,4 g/kg   |

Mirilla con posibilidad de oscurecimiento  
Medio de humectación, Fibra de vidrio (HU-CEL), Tipo 1  
Rieles del KBF en acero inoxidable V2A  
bandeja acero inoxidable 1309 KGT salida derecha  
Salida de condensados: DN32, 1 1/4 Pulgadas  
Puerta de acceso, Sujeta puerta - palanca de cierre

(15) Ventilador, Giro libre con motor EC

|  |                        |
|--|------------------------|
| Caudal de aire                               | 6703 m³/h              |
| Pérdida de carga externa                     | 250 Pa                 |
| Presión interna del ventilador               | 7 Pa                   |
| Pérdida de carga interna                     | 377 Pa                 |
| Pérdida de carga dinámica                    | 69 Pa                  |
| Pérdida de carga total                       | 703 Pa                 |
| Tipo de ventilador                           | VME400-2,50/400EC-2450 |
| Número de revoluciones del ventilador        | 2269 1/min             |
| Número de revoluciones máximo del ventilador | 2450 1/min             |
| Rendimiento total                            | 68,5 %                 |
| Corriente del motor                          | 2,91 A                 |
| Corriente máxima del motor                   | 3,80 A                 |



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|   |                   |                                      |
|---|-------------------|--------------------------------------|
| Máxima potencia del motor   | 2,50              | kW                                   |
| Tensión del motor   | 3*400             | V                                    |
| Tensión de mando  | 7,7               | V                                    |
| Valor K   | 188               |                                      |
| Clase de eficiencia energética  | corresponde a IE5 |                                      |
| Potencia eléctrica activa Pm  | 1,91              | kW                                   |
| Potencia consumida en las condiciones SFPv  | 1,75              | kW                                   |
| SFP (Potencia específica del ventilador)  | 0,94              | kW/(m³/s)                            |
|   | 0,260             | W/(m³/h)                             |
| Tipo  | 2138501           |                                      |
| SFP según EN 16798-3  | SFP1              |                                      |
| Clase-P según EN 13053 Pm ref: 2,55 kW  | P1                |                                      |
| Densidad del aire   | 1,2               | kg/m³                                |
| Frecuencia de octava [Hz]   | 63                | 125 250 500 1000 2000 4000 8000 Suma |
| Lw(A) lado de aspiración  | 37                | 57 65 70 73 75 77 70 81              |
| Lw(A) lado de impulsión   | 39                | 57 66 74 79 81 80 73 85              |
| Compuerta de la clase 2 según la DIN EN 1751, Q exterior, 917 x 1222 / 7 Nm par de giro / eje de accionamiento 15 x 15 mm |                   |                                      |
| Pérdida de carga  | 2                 | Pa                                   |

Toma de presión conducida hasta el exterior del equipo  
Montaje caja de clemas con interruptor de mantenimiento montado y cableado., AR 4/5,5  
Mirilla  
Alumbrado, 230V LED, montado y cableado  
Puerta de acceso, Puerta de acceso en dirección de aire, Sujeta puerta - palanca de cierre

Resumen de accesorios

- 6 Alumbrado, 230V LED, montado y cableado
- 6 Mirilla
- 1 Mirilla con posibilidad de oscurecimiento
- 1 No se ha seleccionado en el recuperador de placas ninguna bandeja de condensados en el lado del aire de impulsión, por lo que sólo puede funcionar en verano en condiciones en las que no se produzca condensado.
- 2 Puerta de acceso
- 6 Puerta de acceso
- 8 Sujeta puerta - palanca de cierre
- 2 Toma de presión conducida hasta el exterior del equipo

Notas

Al tratarse de un equipo de intemperie se tiene que proteger el humectador. Protección por parte del instalador.

Directiva ErP -Nr.:1253/2014 (unidades de tratamiento de aire no residencial)

Esta UTA cumple con los requisitos del Reglamento (UE) N°:1253/2014 ; Equipos de ventilación fase 2 (2018); (Requisito ErP 2018).

|                           |   |
|---------------------------|---|
| Tipo de equipo            | Unidad de ventilación bidireccional (UVB) |
| Sistema de recuperación   | Recuperador de placas                     |
| DeltaP Filtro Imp. / Ret. | 77 / 42 Pa                                |



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|  |                      |
|--|----------------------|
| DeltaP WRG (seco) Imp. / Ret.                                      | 173 / 158 Pa         |
| DeltaPs,int  | 450 Pa               |
| DeltaPs, adicional   | 346 Pa               |
| Eficiencia recuperador/objetivo                                    | 73 / 73 %            |
| Vent. eta opt. EU:327/2011   | (8) 69,1% (15) 69,1% |
| Grado de eficiencia N  | (8) 73,7 / (15) 75,5 |
| Vent. eta stat. eingebaut  | (8) 61,4% (15) 61,2% |
| (PVE int/ limit) Potencia del ventilador específica interna máxima | 734 / 813 W/(m³/s)   |
| Máximo caudal de fuga de aire exterior a +400 Pa (RU)              | 1,07 %               |
| Máximo caudal de aire de fuga externa a -400 Pa (RU)               | 0,67 %               |

**Notas:**

El cumplimiento de la ErP se basa en nuestro conocimiento actual del reglamento europeo Nr. 1253/2014.

Los cambios debidos a acuerdos posteriores entre las asociaciones y los reguladores pueden hacer que este equipo deje de cumplir la directiva.

Por esta razón, los datos técnicos y el método de cálculo sólo se pueden garantizar para la fecha en la que se configuró el equipo.


El cambio regular de los filtros del equipo es importante para mantener en rendimiento y la eficiencia energética.

Para cumplir con los requisitos del Reglamento (UE) 1253/2014, es obligatorio instalar en la máquina indicadores de presión diferencial en filtros o un avisador acústico en el controlador.



## **2.2.- BOMBAS**



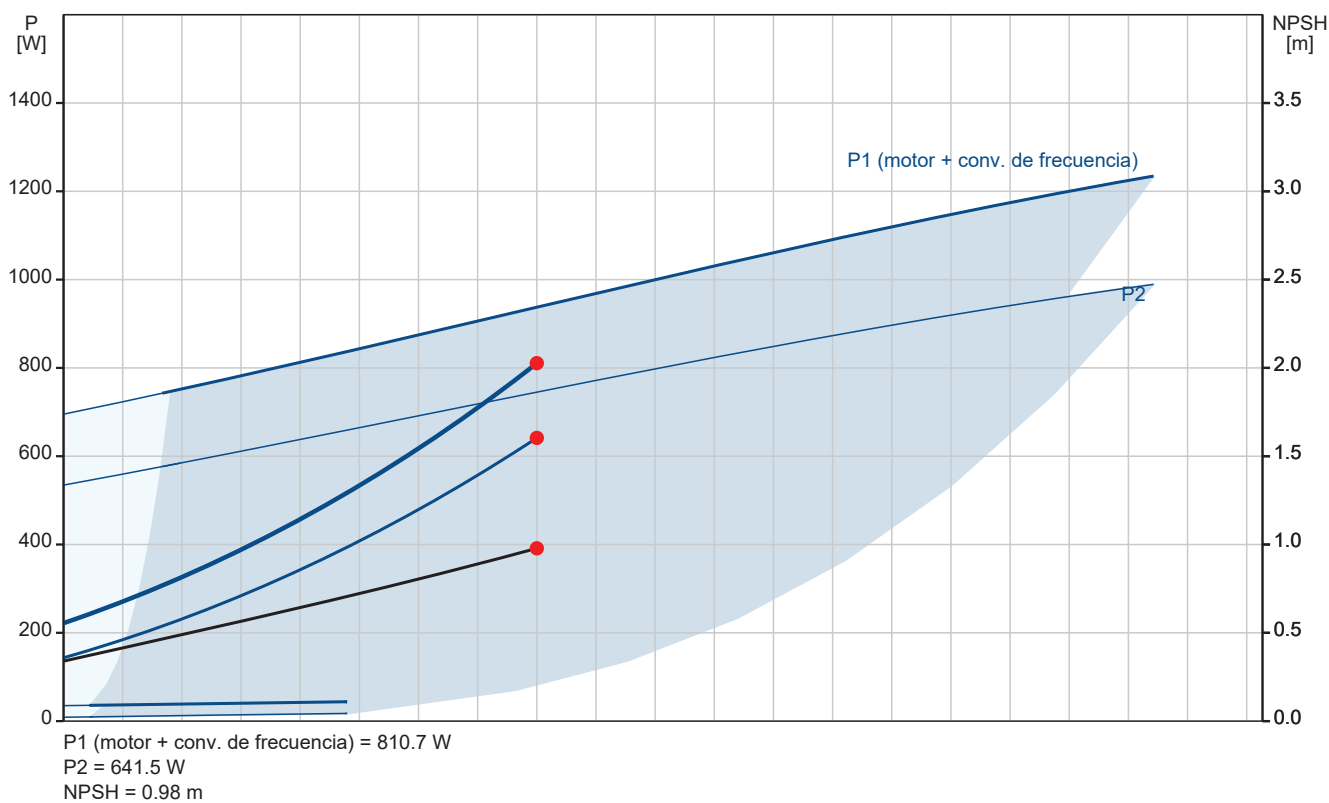
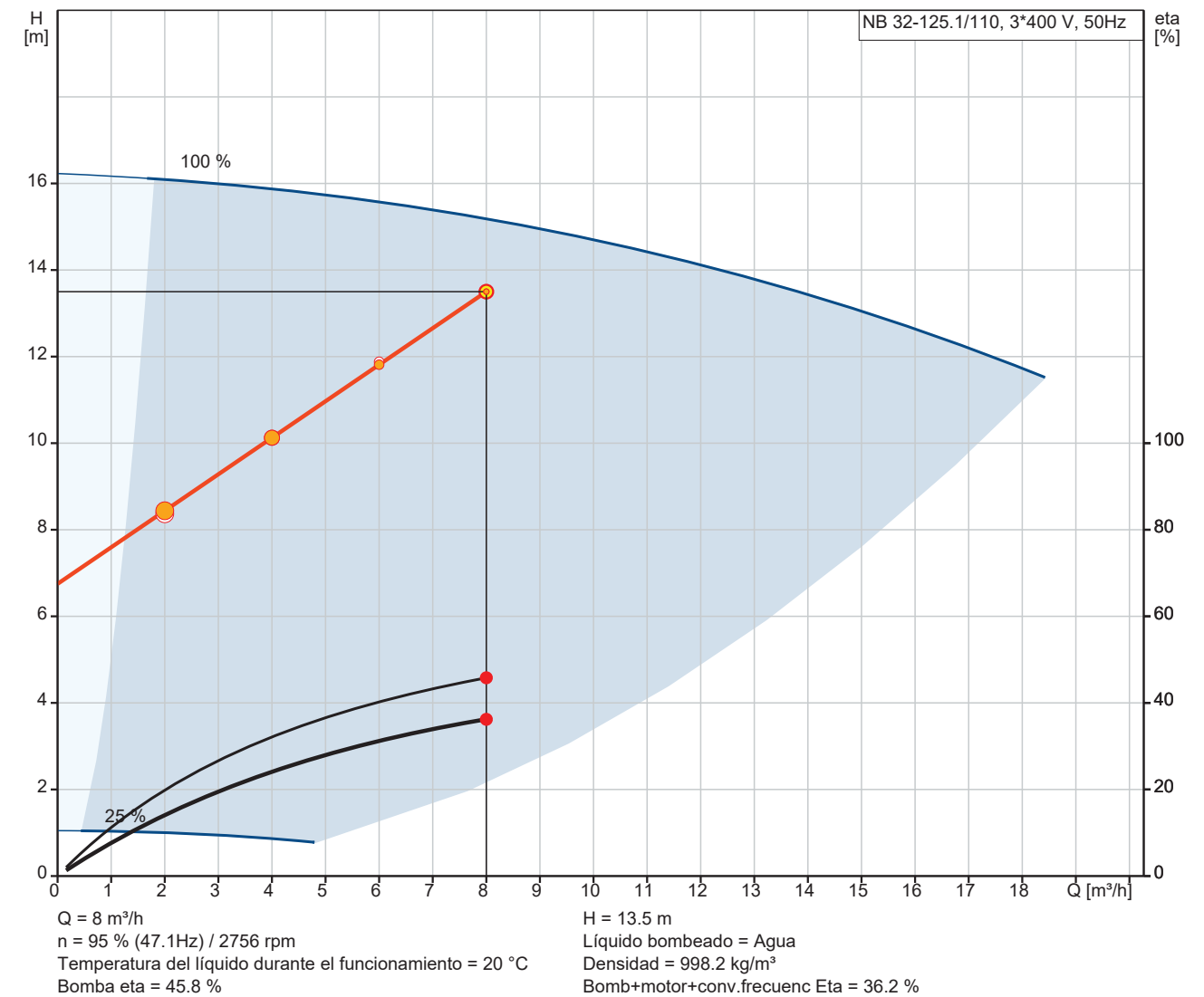
| Contar | Descripción  |
|--------|--|
| 1      | <div> <div> <div>NB 32-125.1/110 AAF2AESBQQEGW1</div> <div>  </div> <div> <div>Advertia! la foto puede diferir del actual producto</div> <div>Código: 98052673</div> </div> </div> <div> <p>Bomba centrífuga de voluta, no autocebante y de una etapa, diseñada de acuerdo con la norma ISO 5199, con dimensiones y rendimiento nominal de acuerdo con la norma EN 733 (10 bar). Las bridas son de PN 16 y sus dimensiones satisfacen los requisitos establecidos por la norma EN 1092-2.</p> <p>La bomba posee un puerto de aspiración axial, un puerto de descarga radial, eje horizontal y un diseño que facilita la extracción del motor, el soporte del motor, la cubierta y el impulsor sin necesidad de desmontar la carcasa de la bomba ni las tuberías.</p> <p>El cierre de fuelle de caucho no equilibrado satisface los requisitos establecidos por la norma DIN EN 12756. La bomba está acoplada directamente a un motor asíncrono refrigerado por ventilador.</p> <div> <div>Paneles control:</div> <div> <div>Frequency converter:</div> <div>None</div> </div> <div> <div>Sensor de presión:</div> <div>N</div> </div> </div> <div> <div>Líquido:</div> <div> <div>Líquido bombeado:</div> <div>Agua</div> </div> <div> <div>Rango de temperatura del líquido:</div> <div>-25 .. 120 °C</div> </div> <div> <div>Temperatura del líquido durante el funcionamiento:</div> <div>20 °C</div> </div> <div> <div>Densidad:</div> <div>998.2 kg/m³</div> </div> <div> <div>Viscosidad cinemática:</div> <div>1 mm2/s</div> </div> </div> <div> <div>Técnico:</div> <div> <div>Velocidad de bomba en la que se basan los datos de bomba:</div> <div>2756 rpm</div> </div> <div> <div>Caudal real calculado:</div> <div>8 m³/h</div> </div> <div> <div>Altura resultante de la bomba:</div> <div>13.5 m</div> </div> <div> <div>Diámetro real del impulsor:</div> <div>110 mm</div> </div> <div> <div>Diámetro nominal del impulsor:</div> <div>125.1</div> </div> <div> <div>Disp. de cierre:</div> <div>Single</div> </div> <div> <div>Código del cierre:</div> <div>BQQE</div> </div> <div> <div>Tolerancia de curva:</div> <div>ISO9906:2012 3B2</div> </div> <div> <div>Diseño rodamiento:</div> <div>Standard</div> </div> </div> <div> <div>Materiales:</div> <div> <div>Cuerpo hidráulico:</div> <div>Fundición</div> </div> <div> <div>Carcasa de la bomba:</div> <div>EN-GJL-250</div> </div> <div> <div></div> <div>ASTM class 35</div> </div> <div> <div>Mat. de anillo de desgaste:</div> <div>Latón</div> </div> <div> <div>Impulsor:</div> <div>Fundición</div> </div> <div> <div></div> <div>EN-GJL-200</div> </div> <div> <div></div> <div>ASTM class 30</div> </div> <div> <div>Internal pump house coating:</div> <div>CED</div> </div> <div> <div>Eje:</div> <div>Stainless steel</div> </div> <div> <div></div> <div>EN 1.4301</div> </div> <div> <div></div> <div>AISI 304</div> </div> </div> <div> <div>Instalación:</div> <div> <div>Temperatura ambiente máxima:</div> <div>60 °C</div> </div> <div> <div>Presión de trabajo máxima:</div> <div>16 bar</div> </div> <div> <div>Normativa de conexión de tubería:</div> <div>EN 1092-2</div> </div> <div> <div>Tamaño de la conexión de entrada:</div> <div>DN 50</div> </div> <div> <div>Tamaño de la conexión de salida:</div> <div>DN 32</div> </div> </div> </div> </div> |



| Contar | Descripción  |
|--------|--|
| 1      | <p>Presión nominal para la conexión: PN 16</p> <p>Lubricación de rodamiento: Grease</p> <p>Carcasa de bomba con pie: Yes</p> <p>Sí = Con bloque de soporte, No = Sin bloque de soporte: N</p> <p>Datos eléctricos:</p> <p>Tipo de motor: 80C</p> <p>Potencia nominal - P2: 1.1 kW</p> <p>Frecuencia de red: 50 Hz</p> <p>Tensión nominal: 3 x 220-240D/380-415Y V</p> <p>Intensidad nominal: 4.35/2.50 A</p> <p>Intensidad de arranque: 450-500 %</p> <p>Cos phi - factor de potencia: 0.83-0.76</p> <p>Velocidad nominal: 2840-2870 rpm</p> <p>Clase eficiencia IE: IE3</p> <p>Eficiencia del motor a carga total: 82.7 %</p> <p>Eficiencia del motor a una carga de 3/4: 84.6-84.0 %</p> <p>Eficiencia del motor a una carga de 1/2: 85.4-82.8 %</p> <p>Número de polos: 2</p> <p>Grado de protección (IEC 34-5): 55 Dust/Jetting</p> <p>Clase de aislamiento (IEC 85): F</p> <p>Motor N.º: 87120286</p> <p>Bearing insulation type N-end: Steel Bearing</p> <p>Otros:</p> <p>Índice de eficiencia mínima, IE min: 0.70</p> <p>Peso neto: 34 kg</p> <p>Peso bruto: 45 kg</p> <p>Volumen de transporte: 0.134 m³</p> <p>VVS danés n.º: 386060141</p> <p>País de origen.: HU</p> <p>Tarifa personalizada n.º: 84137051</p> <p>Idioma de la placa del motor: GB</p> |



98052673 NB 32-125.1/110 AAF2AESBQQEGW1 50 Hz





| Descripción   | Valor                             |
|---|-----------------------------------|
| <b>Información general:</b>                               |                                   |
| Producto::  | NB 32-125.1/110<br>AAF2AESBQQEGW1 |
| Código::  | 98052673                          |
| Número EAN::  | 5710628156236                     |
| <b>Técnico:</b>   |                                   |
| Velocidad de bomba en la que se basan los datos de bomba: | 2756 rpm                          |
| Caudal real calculado:                                    | 8 m³/h                            |
| Altura resultante de la bomba:                            | 13.5 m                            |
| Diámetro real del impulsor:                               | 110 mm                            |
| Diámetro nominal del impulsor:                            | 125.1                             |
| Disp. de cierre:  | Single                            |
| Diámetro del eje:   | 24 mm                             |
| Código del cierre:  | BQQE                              |
| Tolerancia de curva:                                      | ISO9906:2012 3B2                  |
| Versión de la bomba:                                      | A                                 |
| Diseño rodamiento:  | Standard                          |
| <b>Materiales:</b>  |                                   |
| Cuerpo hidráulico:  | Fundición                         |
| Carcasa de la bomba:                                      | EN-GJL-250                        |
| Carcasa de la bomba:                                      | ASTM class 35                     |
| Mat. de anillo de desgaste:                               | Latón                             |
| Impulsor:   | Fundición                         |
| Impulsor:   | EN-GJL-200                        |
| Impulsor:   | ASTM class 30                     |
| Internal pump house coating:                              | CED                               |
| Código de material:                                       | A                                 |
| Código para caucho:                                       | E                                 |
| Eje:  | Stainless steel                   |
| Eje:  | EN 1.4301                         |
| Eje:  | AISI 304                          |
| <b>Instalación:</b>                                       |                                   |
| Temperatura ambiente máxima:                              | 60 °C                             |
| Presión de trabajo máxima:                                | 16 bar                            |
| Normativa de conexión de tubería:                         | EN 1092-2                         |
| Tamaño de la conexión de entrada:                         | DN 50                             |
| Tamaño de la conexión de salida:                          | DN 32                             |
| Presión nominal para la conexión:                         | PN 16                             |
| Lubricación de rodamiento:                                | Grease                            |
| Carcasa de bomba con pie:                                 | Yes                               |
| Sí = Con bloque de soporte, No = Sin bloque de soporte:   | N                                 |
| Código de conexión:                                       | F2                                |
| <b>Líquido:</b>   |                                   |
| Líquido bombeado:   | Agua                              |
| Rango de temperatura del líquido:                         | -25 .. 120 °C                     |
| Temperatura del líquido durante el funcionamiento:        | 20 °C                             |
| Densidad:   | 998.2 kg/m³                       |
| Viscosidad cinemática:                                    | 1 mm2/s                           |
| <b>Datos eléctricos:</b>                                  |                                   |
| Tipo de motor:  | 80C                               |
| Potencia nominal - P2:                                    | 1.1 kW                            |
| Frecuencia de red:  | 50 Hz                             |
| Tensión nominal:  | 3 x 220-240D/380-415Y V           |
| Intensidad nominal:                                       | 4.35/2.50 A                       |
| Intensidad de arranque:                                   | 450-500 %                         |
| Cos phi - factor de potencia:                             | 0.83-0.76                         |
| Velocidad nominal:  | 2840-2870 rpm                     |
| Clase eficiencia IE:                                      | IE3                               |
| Eficiencia del motor a carga total:                       | 82.7 %                            |

H [m]
   
 16
   
 14
   
 12
   
 10
   
 8
   
 6
   
 4
   
 2
   
 0
   
 0 2 4 6 8 10 12 14 16 18
   
 Q [m³/h]
   
 100 %
   
 25 %
   
 NB 32-125.1/110, 3\*400 V, 50Hz
   
 eta [%]
   
 100
   
 80
   
 60
   
 40
   
 20
   
 0
   
 Q = 8 m³/h
   
 n = 95 % (47.1Hz) / 2756 rpm
   
 Densidad = 998.2 kg/m³
   
 Temperatura del líquido durante el funcionamiento = 20 °C
   
 Bomb+motor+conv.frecuenc
   
 H = 13.5 m
   
 Líquido bombeado = Agua
   
 Bomba eta = 45.8 %
   
 Bomb+motor+conv.frecuenc Eta = 36.2 %

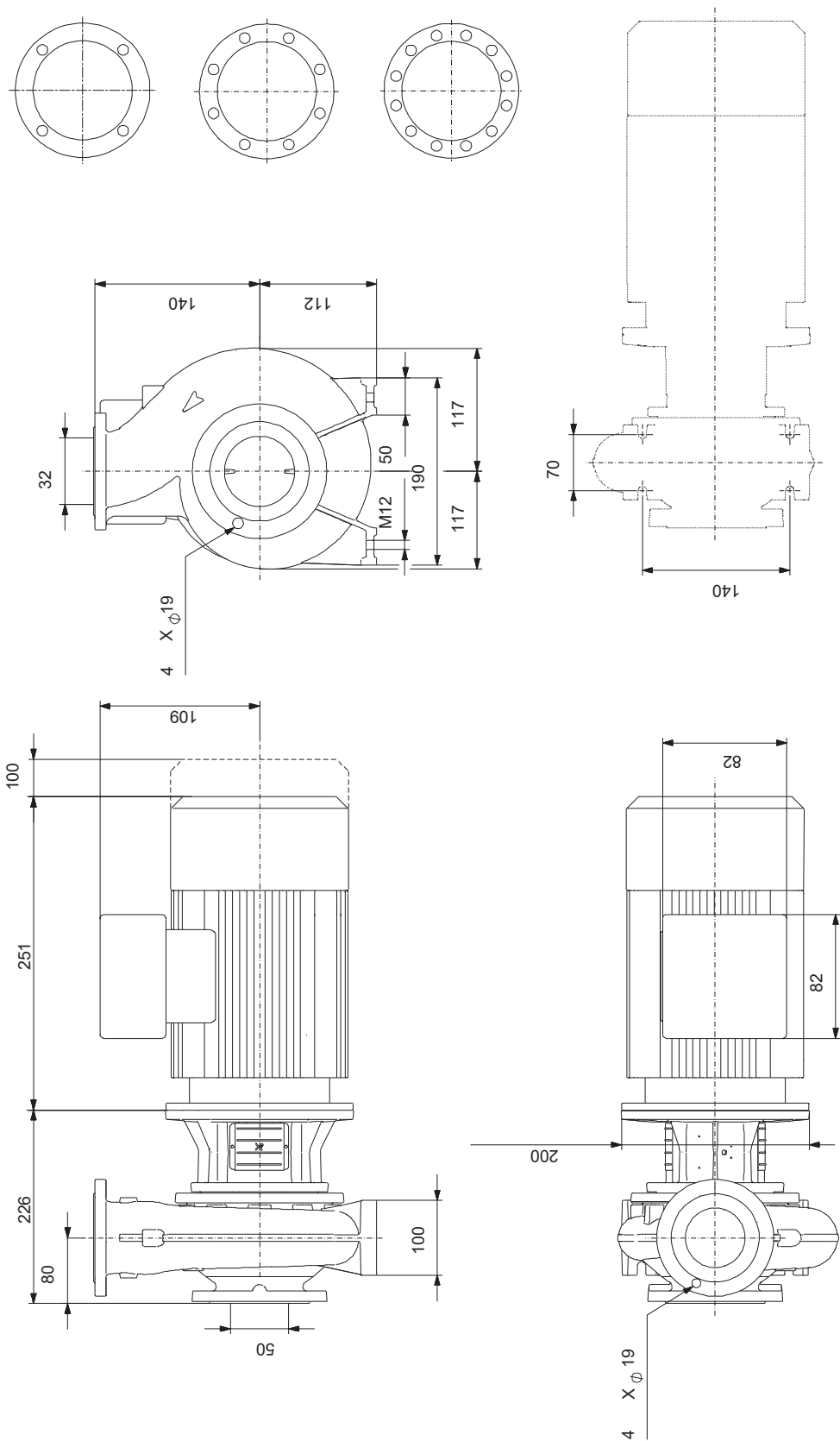
P [W]
   
 1200
   
 1000
   
 800
   
 600
   
 400
   
 200
   
 0
   
 0 0.5 1.0 1.5 2.0 2.5 3.0
   
 NPSH [m]
   
 P1 (motor + conv. de frecuencia)
   
 P2
   
 P1 (motor + conv. de frecuencia) = 810.7 W
   
 P2 = 641.5 W
   
 NPSH = 0.98 m




| Descripción                              | Valor           |
|--|-----------------|
| Eficiencia del motor a una carga de 3/4: | 84.6-84.0 %     |
| Eficiencia del motor a una carga de 1/2: | 85.4-82.8 %     |
| Número de polos:                         | 2               |
| Grado de protección (IEC 34-5):          | 55 Dust/Jetting |
| Clase de aislamiento (IEC 85):           | F               |
| Protección de motor integrada:           | NINGUNA         |
| Motor N.º:                               | 87120286        |
| Diseño del montaje según norma CEI 34-7: | IM V1/B5        |
| Bearing insulation type N-end:           | Steel Bearing   |
| <b>Paneles control:</b>                  |                 |
| Convertidor de frecuencia:               | None            |
| Sensor de presión:                       | N               |
| <b>Otros:</b>                            |                 |
| Índice de eficiencia mínima, IE min:     | 0.70            |
| Peso neto:                               | 34 kg           |
| Peso bruto:                              | 45 kg           |
| Volumen de transporte:                   | 0.134 m³        |
| VVS danés n.º:                           | 386060141       |
| País de origen.:                         | HU              |
| Tarifa personalizada n.º:                | 84137051        |
| Idioma de la placa del motor:            | GB              |



98052673 NB 32-125.1/110 AAF2AESBQQEGW1 50 Hz





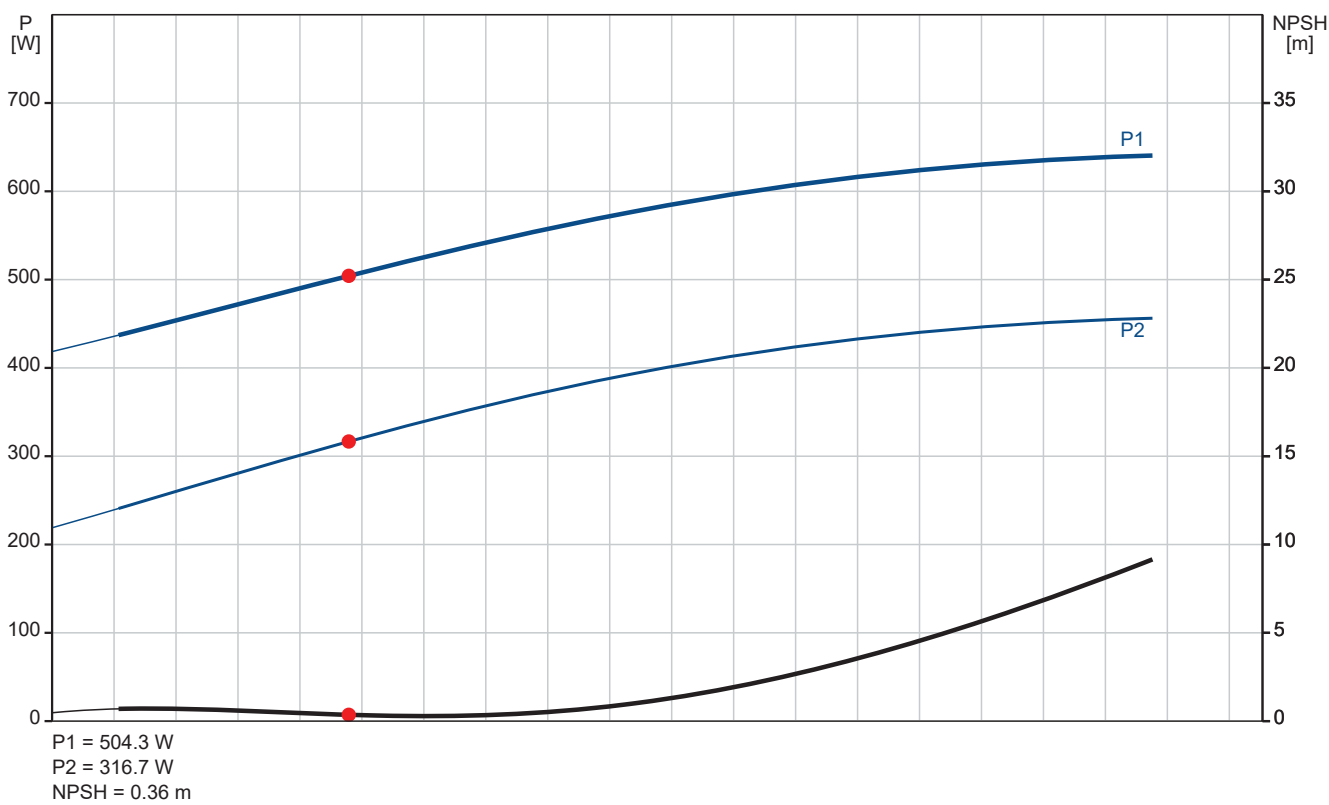
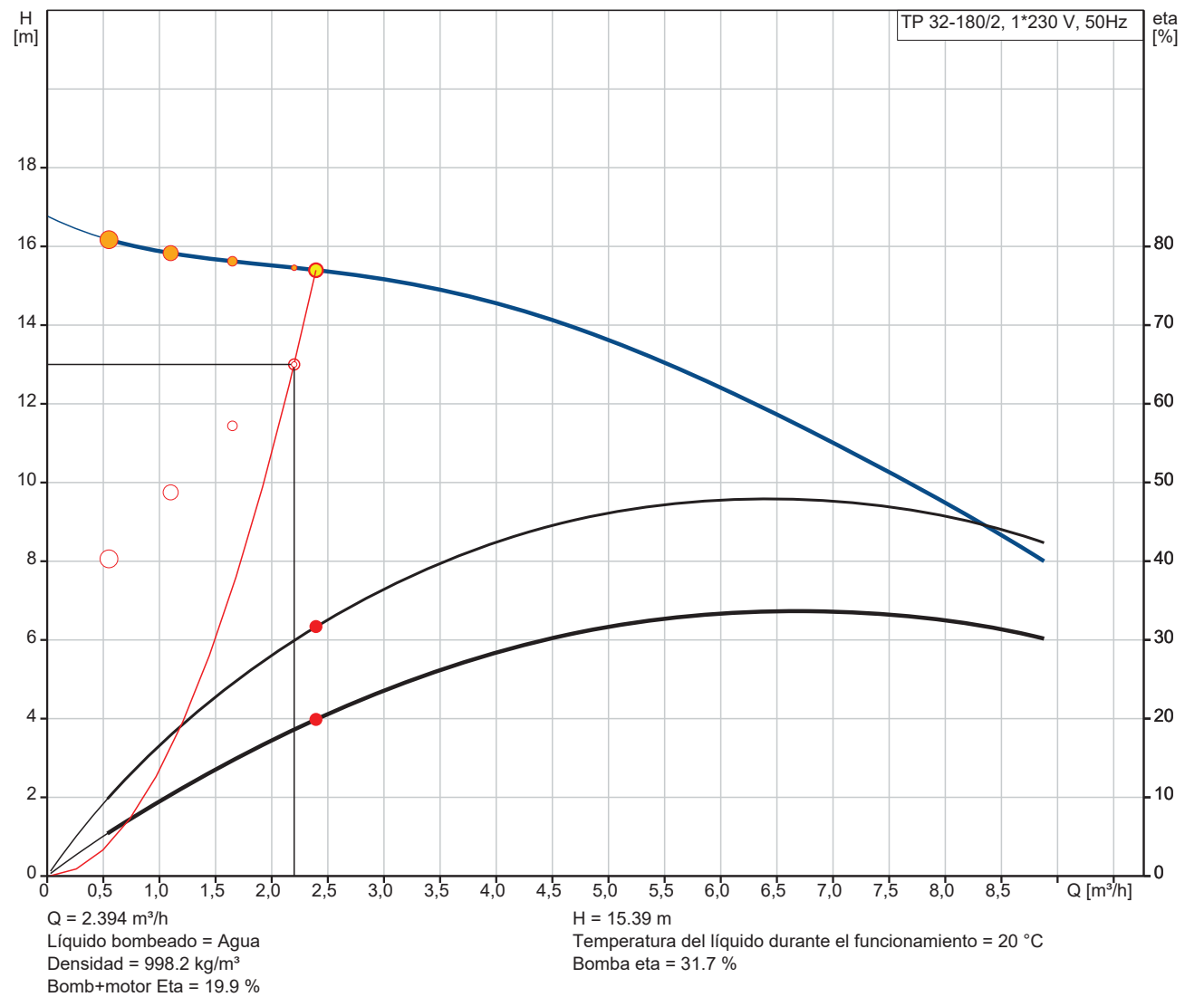
| Contar | Descripción  |
|--------|--|
| 1      | <div> <div> <div>TP 32-180/2 A-F-A-BQQE-EW1</div> <div>  </div> <div> <div>                     Código: 98958116                 </div> <div>                     Bomba de una etapa, acoplamiento cerrado y voluta con puertos de aspiración y descarga en línea de idéntico diámetro. El diseño de la bomba incluye un sistema de extracción superior que facilita el desmontaje del cabezal motor (el motor, el cabezal de la bomba y el impulsor) con fines de mantenimiento o reparación sin necesidad de desconectar las tuberías de la carcasa de la bomba.                 </div> <div>                     La bomba está equipada con un cierre de fuelle de caucho no equilibrado. El cierre mecánico satisface los requisitos establecidos por la norma EN 12756. La conexión de las tuberías se lleva a cabo por medio de bridas DIN de PN 6/10 (normas EN 1092-2 e ISO 7005-2).                 </div> <div>                     La bomba está equipada con un motor asíncrono refrigerado por ventilador.                 </div> <div> <div>Paneles control:</div> <div> <div>Frequency converter:</div> <div>None</div> </div> </div> <div> <div>Líquido:</div> <div> <div>Líquido bombeado:</div> <div>Agua</div> </div> <div> <div>Rango de temperatura del líquido:</div> <div>-25 .. 120 °C</div> </div> <div> <div>Temperatura del líquido durante el funcionamiento:</div> <div>20 °C</div> </div> <div> <div>Densidad:</div> <div>998.2 kg/m³</div> </div> <div> <div>Viscosidad cinemática:</div> <div>1 mm2/s</div> </div> </div> <div> <div>Técnico:</div> <div> <div>Velocidad predeterminada:</div> <div>2840 rpm</div> </div> <div> <div>Caudal real calculado:</div> <div>2.394 m³/h</div> </div> <div> <div>Altura resultante de la bomba:</div> <div>15.39 m</div> </div> <div> <div>Diámetro real del impulsor:</div> <div>118 mm</div> </div> <div> <div>Código del cierre:</div> <div>BQQE</div> </div> <div> <div>Tolerancia de curva:</div> <div>ISO9906:2012 3B2</div> </div> </div> <div> <div>Materiales:</div> <div> <div>Cuerpo hidráulico:</div> <div>Fundición</div> </div> <div> <div>Carcasa de la bomba:</div> <div>                     EN-GJL-250<br/>                     ASTM class 35                 </div> </div> <div> <div>Impulsor:</div> <div>                     Acero inoxidable<br/>                     EN 1.4301<br/>                     AISI 304                 </div> </div> </div> <div> <div>Instalación:</div> <div> <div>Rango de temperaturas ambientes:</div> <div>-30 .. 40 °C</div> </div> <div> <div>Presión de trabajo máxima:</div> <div>10 bar</div> </div> <div> <div>Presión máxima a la temp. declarada:</div> <div>10 bar / 120 °C</div> </div> <div> <div>Tipo de conexión:</div> <div>DIN</div> </div> <div> <div>Tamaño de la conexión:</div> <div>DN 32</div> </div> <div> <div>Presión nominal para la conexión:</div> <div>PN 6/10</div> </div> <div> <div>Longitud puerto a puerto:</div> <div>280 mm</div> </div> <div> <div>Tamaño de la brida del motor:</div> <div>FT100</div> </div> </div> <div> <div>Datos eléctricos:</div> <div> <div>Tipo de motor:</div> <div>80B</div> </div> <div> <div>Potencia nominal - P2:</div> <div>0.55 kW</div> </div> <div> <div>Frecuencia de red:</div> <div>50 Hz</div> </div> <div> <div>Tensión nominal:</div> <div>1 x 220-230 V</div> </div> </div> </div> </div> </div> |



| Contar | Descripción   |
|--------|---|
| 1      | <div><div><div>Intensidad nominal:</div><div>3.70-3.75 A</div></div><div><div>Intensidad de arranque:</div><div>400-410 %</div></div><div><div>Cos phi - factor de potencia:</div><div>0.96-0.93</div></div><div><div>Velocidad nominal:</div><div>2800-2820 rpm</div></div><div><div>Clase eficiencia IE:</div><div>IE2</div></div><div><div>Eficiencia del motor a carga total:</div><div>74.1 %</div></div><div><div>Eficiencia del motor a una carga de 3/4:</div><div>72.5-69.4 %</div></div><div><div>Eficiencia del motor a una carga de 1/2:</div><div>63.3-59.0 %</div></div><div><div>Número de polos:</div><div>2</div></div><div><div>Grado de protección (IEC 34-5):</div><div>55 Dust/Jetting</div></div><div><div>Clase de aislamiento (IEC 85):</div><div>F</div></div><div><div>Motor N.º:</div><div>92714430</div></div></div> <div>Otros:</div> <div><div>Índice de eficiencia mínima, IE min:</div><div>0.70</div></div> <div><div>Peso neto:</div><div>24.7 kg</div></div> <div><div>Peso bruto:</div><div>28.2 kg</div></div> <div><div>Volumen de transporte:</div><div>0.08 m³</div></div> <div><div>País de origen.:</div><div>HU</div></div> <div><div>Tarifa personalizada n.º:</div><div>84137051</div></div> |



98958116 TP 32-180/2 A-F-A-BQQE-EW1 50 Hz





| Descripción  | Valor                         |
|--|-------------------------------|
| <b>Información general:</b>                        |                               |
| Producto::   | TP 32-180/2<br>A-F-A-BQQE-EW1 |
| Código::   | 98958116                      |
| Número EAN::                                       | 5712604245835                 |
| <b>Técnico:</b>                                    |                               |
| Velocidad predeterminada:                          | 2840 rpm                      |
| Caudal real calculado:                             | 2.394 m³/h                    |
| Altura resultante de la bomba:                     | 15.39 m                       |
| Altura máxima:                                     | 180 dm                        |
| Diámetro real del impulsor:                        | 118 mm                        |
| Código del cierre:                                 | BQQE                          |
| Tolerancia de curva:                               | ISO9906:2012 3B2              |
| Versión de la bomba:                               | A                             |
| <b>Materiales:</b>                                 |                               |
| Cuerpo hidráulico:                                 | Fundición                     |
| Carcasa de la bomba:                               | EN-GJL-250                    |
| Carcasa de la bomba:                               | ASTM class 35                 |
| Impulsor:  | Acero inoxidable              |
| Impulsor:  | EN 1.4301                     |
| Impulsor:  | AISI 304                      |
| Código de material:                                | A                             |
| <b>Instalación:</b>                                |                               |
| Rango de temperaturas ambientes:                   | -30 .. 40 °C                  |
| Presión de trabajo máxima:                         | 10 bar                        |
| Presión máxima a la temp. declarada:               | 10 bar / 120 °C               |
| Tipo de conexión:                                  | DIN                           |
| Tamaño de la conexión:                             | DN 32                         |
| Presión nominal para la conexión:                  | PN 6/10                       |
| Longitud puerto a puerto:                          | 280 mm                        |
| Tamaño de la brida del motor:                      | FT100                         |
| Código de conexión:                                | F                             |
| <b>Líquido:</b>                                    |                               |
| Líquido bombeado:                                  | Agua                          |
| Rango de temperatura del líquido:                  | -25 .. 120 °C                 |
| Temperatura del líquido durante el funcionamiento: | 20 °C                         |
| Densidad:  | 998.2 kg/m³                   |
| Viscosidad cinemática:                             | 1 mm2/s                       |
| <b>Datos eléctricos:</b>                           |                               |
| Tipo de motor:                                     | 80B                           |
| Potencia nominal - P2:                             | 0.55 kW                       |
| Frecuencia de red:                                 | 50 Hz                         |
| Tensión nominal:                                   | 1 x 220-230 V                 |
| Intensidad nominal:                                | 3.70-3.75 A                   |
| Intensidad de arranque:                            | 400-410 %                     |
| Cos phi - factor de potencia:                      | 0.96-0.93                     |
| Velocidad nominal:                                 | 2800-2820 rpm                 |
| Clase eficiencia IE:                               | IE2                           |
| Eficiencia del motor a carga total:                | 74.1 %                        |
| Eficiencia del motor a una carga de 3/4:           | 72.5-69.4 %                   |
| Eficiencia del motor a una carga de 1/2:           | 63.3-59.0 %                   |
| Número de polos:                                   | 2                             |
| Grado de protección (IEC 34-5):                    | 55 Dust/Jetting               |
| Clase de aislamiento (IEC 85):                     | F                             |
| Protección de motor integrada:                     | PTO                           |
| Motor N.º:   | 92714430                      |
| <b>Paneles control:</b>                            |                               |
| Convertidor de frecuencia:                         | None                          |
| <b>Otros:</b>                                      |                               |
| Índice de eficiencia mínima, IE min:               | 0.70                          |
| Peso neto:   | 24.7 kg                       |

TP 32-180/2, 1\*230 V, 50Hz

Q = 2.394 m³/h      H = 15.39 m  
Líquido bombeado = Agua      Densidad = 998.2 kg/m³  
Bomba eta = 31.7 %      Bomba+motor Eta = 19.9 %  
Temperatura del líquido durante el funcionamiento = 20 °C

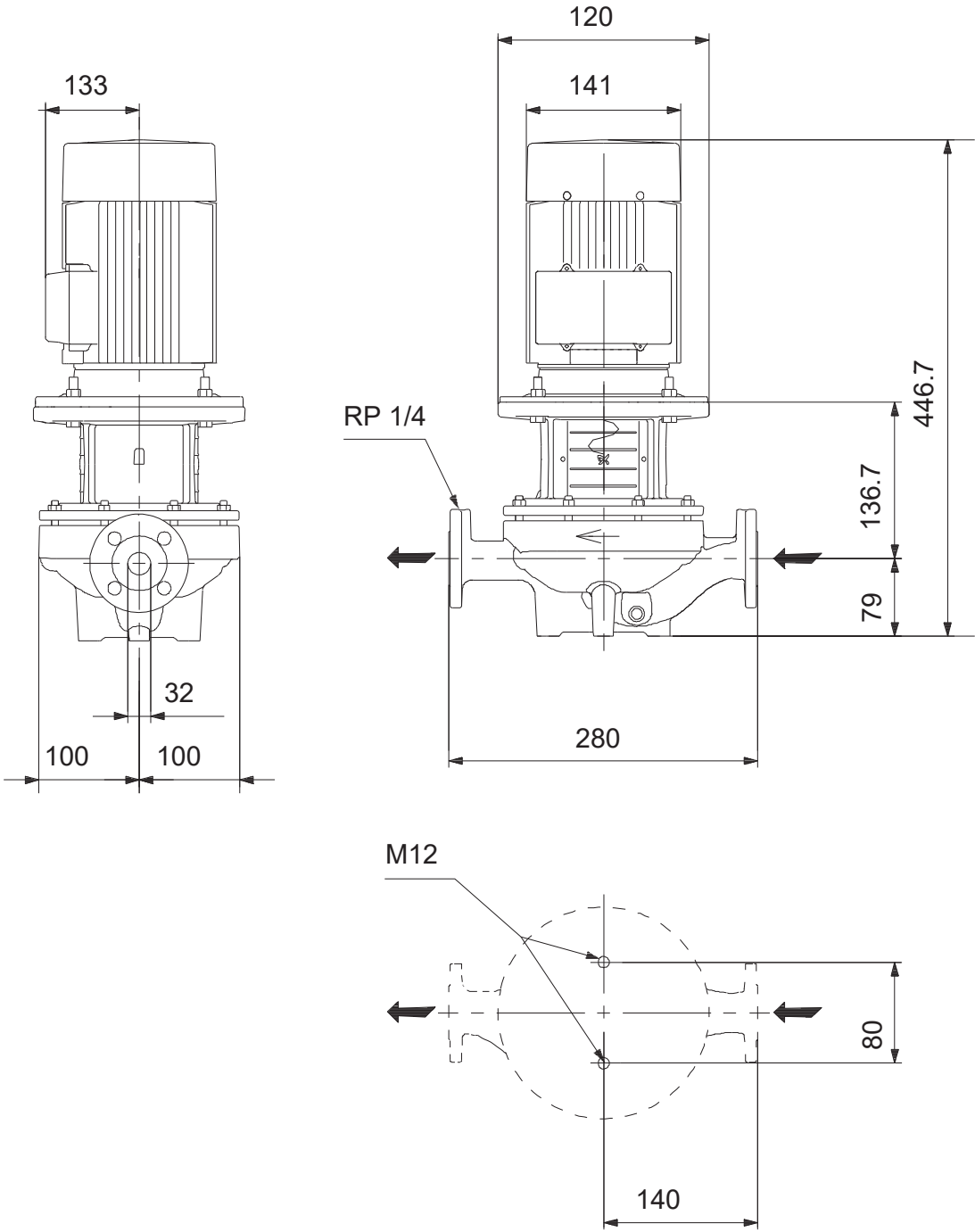
P1 = 504.3 W  
P2 = 316.7 W  
NPSH = 0.36 m



| Descripción               | Valor    |
|---------------------------|----------|
| Peso bruto:               | 28.2 kg  |
| Volumen de transporte:    | 0.08 m³  |
| País de origen.:          | HU       |
| Tarifa personalizada n.º: | 84137051 |




98958116 TP 32-180/2 A-F-A-BQQE-EW1 50 Hz



Nota: todas las unidades están en [mm] a menos que se indiquen otras. Exención de responsabilidad: este esquema dimensional simplificado no muestra todos los detalles.



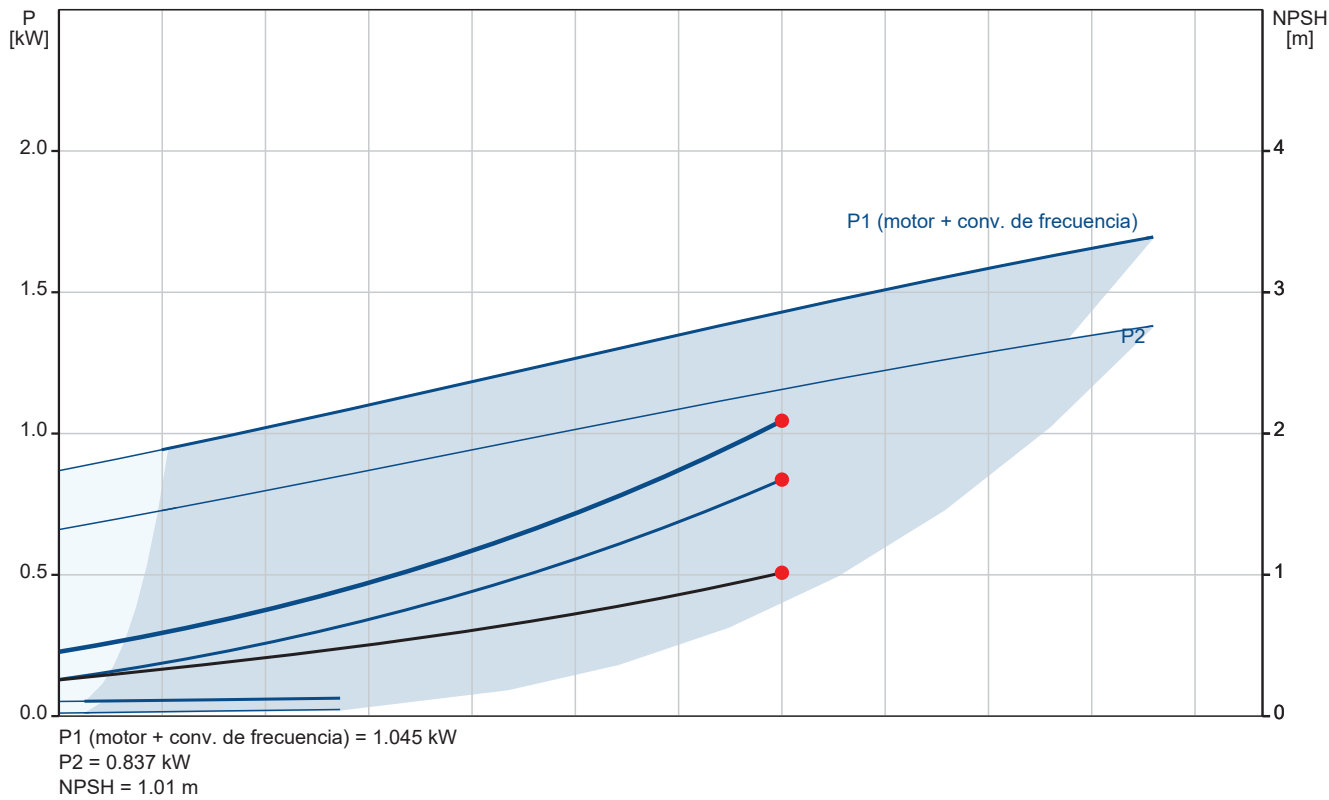
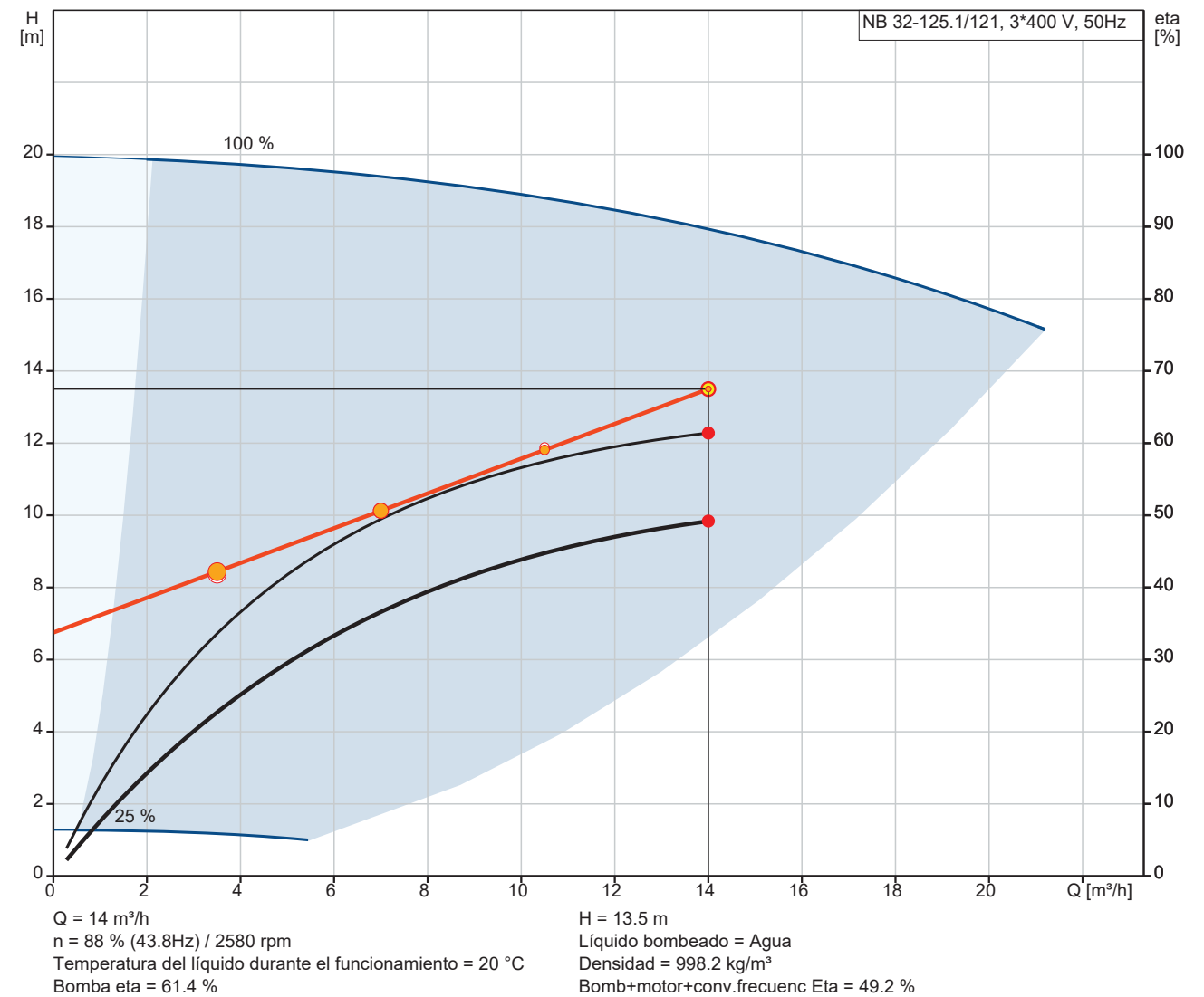
| Contar | Descripción   |
|--------|---|
| 1      | <div> <div> <div>NB 32-125.1/121 AAF2AESBQQEHW1</div> <div>  </div> <div> <div>Advertia! la foto puede diferir del actual producto</div> <div>Código: 98124465</div> </div> </div> <div> <p>Bomba centrífuga de voluta, no autocebante y de una etapa, diseñada de acuerdo con la norma ISO 5199, con dimensiones y rendimiento nominal de acuerdo con la norma EN 733 (10 bar). Las bridas son de PN 16 y sus dimensiones satisfacen los requisitos establecidos por la norma EN 1092-2.</p> <p>La bomba posee un puerto de aspiración axial, un puerto de descarga radial, eje horizontal y un diseño que facilita la extracción del motor, el soporte del motor, la cubierta y el impulsor sin necesidad de desmontar la carcasa de la bomba ni las tuberías.</p> <p>El cierre de fuelle de caucho no equilibrado satisface los requisitos establecidos por la norma DIN EN 12756. La bomba está acoplada directamente a un motor asíncrono refrigerado por ventilador.</p> <div> <div>Paneles control:</div> <div> <div>Frequency converter:</div> <div>None</div> </div> <div> <div>Sensor de presión:</div> <div>N</div> </div> </div> <div> <div>Líquido:</div> <div> <div>Líquido bombeado:</div> <div>Agua</div> </div> <div> <div>Rango de temperatura del líquido:</div> <div>-25 .. 120 °C</div> </div> <div> <div>Temperatura del líquido durante el funcionamiento:</div> <div>20 °C</div> </div> <div> <div>Densidad:</div> <div>998.2 kg/m³</div> </div> <div> <div>Viscosidad cinemática:</div> <div>1 mm2/s</div> </div> </div> <div> <div>Técnico:</div> <div> <div>Velocidad de bomba en la que se basan los datos de bomba:</div> <div>2580 rpm</div> </div> <div> <div>Caudal real calculado:</div> <div>14 m³/h</div> </div> <div> <div>Altura resultante de la bomba:</div> <div>13.5 m</div> </div> <div> <div>Diámetro real del impulsor:</div> <div>121 mm</div> </div> <div> <div>Diámetro nominal del impulsor:</div> <div>125.1</div> </div> <div> <div>Disp. de cierre:</div> <div>Single</div> </div> <div> <div>Código del cierre:</div> <div>BQQE</div> </div> <div> <div>Tolerancia de curva:</div> <div>ISO9906:2012 3B2</div> </div> <div> <div>Diseño rodamiento:</div> <div>Standard</div> </div> </div> <div> <div>Materiales:</div> <div> <div>Cuerpo hidráulico:</div> <div>Fundición</div> </div> <div> <div>Carcasa de la bomba:</div> <div>EN-GJL-250</div> </div> <div> <div></div> <div>ASTM class 35</div> </div> <div> <div>Mat. de anillo de desgaste:</div> <div>Latón</div> </div> <div> <div>Impulsor:</div> <div>Fundición</div> </div> <div> <div></div> <div>EN-GJL-200</div> </div> <div> <div></div> <div>ASTM class 30</div> </div> <div> <div>Internal pump house coating:</div> <div>CED</div> </div> <div> <div>Eje:</div> <div>Stainless steel</div> </div> <div> <div></div> <div>EN 1.4301</div> </div> <div> <div></div> <div>AISI 304</div> </div> </div> <div> <div>Instalación:</div> <div> <div>Temperatura ambiente máxima:</div> <div>60 °C</div> </div> <div> <div>Presión de trabajo máxima:</div> <div>16 bar</div> </div> <div> <div>Normativa de conexión de tubería:</div> <div>EN 1092-2</div> </div> <div> <div>Tamaño de la conexión de entrada:</div> <div>DN 50</div> </div> <div> <div>Tamaño de la conexión de salida:</div> <div>DN 32</div> </div> </div> </div> </div> |



| Contar | Descripción  |
|--------|--|
| 1      | <p>Presión nominal para la conexión: PN 16</p> <p>Lubricación de rodamiento: Grease</p> <p>Carcasa de bomba con pie: Yes</p> <p>Sí = Con bloque de soporte, No = Sin bloque de soporte: N</p> <p>Datos eléctricos:</p> <p>Tipo de motor: 90SD</p> <p>Potencia nominal - P2: 1.5 kW</p> <p>Frecuencia de red: 50 Hz</p> <p>Tensión nominal: 3 x 220-240D/380-415Y V</p> <p>Intensidad nominal: 5.70/3.30 A</p> <p>Intensidad de arranque: 750-820 %</p> <p>Velocidad nominal: 2890-2910 rpm</p> <p>Clase eficiencia IE: IE3</p> <p>Eficiencia del motor a carga total: 84.2 %</p> <p>Eficiencia del motor a una carga de 3/4: 86.4-84.9 %</p> <p>Eficiencia del motor a una carga de 1/2: 86.0-83.0 %</p> <p>Número de polos: 2</p> <p>Grado de protección (IEC 34-5): 55 Dust/Jetting</p> <p>Clase de aislamiento (IEC 85): F</p> <p>Motor N.º: 99583820</p> <p>Bearing insulation type N-end: Steel Bearing</p> <p>Otros:</p> <p>Índice de eficiencia mínima, IE min: 0.70</p> <p>Peso neto: 40 kg</p> <p>Peso bruto: 50 kg</p> <p>Volumen de transporte: 0.134 m³</p> <p>VVS danés n.º: 386060142</p> <p>País de origen.: HU</p> <p>Tarifa personalizada n.º: 84137051</p> <p>Idioma de la placa del motor: GB</p> |



98124465 NB 32-125.1/121 AAF2AESBQQEHW1 50 Hz





| Descripción   | Valor                             |
|---|-----------------------------------|
| <b>Información general:</b>                               |                                   |
| Producto::  | NB 32-125.1/121<br>AAF2AESBQQEHW1 |
| Código::  | 98124465                          |
| Número EAN::  | 5710629445254                     |
| <b>Técnico:</b>   |                                   |
| Velocidad de bomba en la que se basan los datos de bomba: | 2580 rpm                          |
| Caudal real calculado:                                    | 14 m³/h                           |
| Altura resultante de la bomba:                            | 13.5 m                            |
| Diámetro real del impulsor:                               | 121 mm                            |
| Diámetro nominal del impulsor:                            | 125.1                             |
| Disp. de cierre:  | Single                            |
| Diámetro del eje:   | 24 mm                             |
| Código del cierre:  | BQQE                              |
| Tolerancia de curva:                                      | ISO9906:2012 3B2                  |
| Versión de la bomba:                                      | A                                 |
| Diseño rodamiento:  | Standard                          |
| <b>Materiales:</b>  |                                   |
| Cuerpo hidráulico:  | Fundición                         |
| Carcasa de la bomba:                                      | EN-GJL-250                        |
| Carcasa de la bomba:                                      | ASTM class 35                     |
| Mat. de anillo de desgaste:                               | Latón                             |
| Impulsor:   | Fundición                         |
| Impulsor:   | EN-GJL-200                        |
| Impulsor:   | ASTM class 30                     |
| Internal pump house coating:                              | CED                               |
| Código de material:                                       | A                                 |
| Código para caucho:                                       | E                                 |
| Eje:  | Stainless steel                   |
| Eje:  | EN 1.4301                         |
| Eje:  | AISI 304                          |
| <b>Instalación:</b>                                       |                                   |
| Temperatura ambiente máxima:                              | 60 °C                             |
| Presión de trabajo máxima:                                | 16 bar                            |
| Normativa de conexión de tubería:                         | EN 1092-2                         |
| Tamaño de la conexión de entrada:                         | DN 50                             |
| Tamaño de la conexión de salida:                          | DN 32                             |
| Presión nominal para la conexión:                         | PN 16                             |
| Lubricación de rodamiento:                                | Grease                            |
| Carcasa de bomba con pie:                                 | Yes                               |
| Sí = Con bloque de soporte, No = Sin bloque de soporte:   | N                                 |
| Código de conexión:                                       | F2                                |
| <b>Líquido:</b>   |                                   |
| Líquido bombeado:   | Agua                              |
| Rango de temperatura del líquido:                         | -25 .. 120 °C                     |
| Temperatura del líquido durante el funcionamiento:        | 20 °C                             |
| Densidad:   | 998.2 kg/m³                       |
| Viscosidad cinemática:                                    | 1 mm²/s                           |
| <b>Datos eléctricos:</b>                                  |                                   |
| Tipo de motor:  | 90SD                              |
| Potencia nominal - P2:                                    | 1.5 kW                            |
| Frecuencia de red:  | 50 Hz                             |
| Tensión nominal:  | 3 x 220-240D/380-415Y V           |
| Intensidad nominal:                                       | 5.70/3.30 A                       |
| Intensidad de arranque:                                   | 750-820 %                         |
| Velocidad nominal:  | 2890-2910 rpm                     |
| Clase eficiencia IE:                                      | IE3                               |
| Eficiencia del motor a carga total:                       | 84.2 %                            |
| Eficiencia del motor a una carga de 3/4:                  | 86.4-84.9 %                       |

NB 32-125.1/121, 3\*400 V, 50Hz  
 H [m]  
 eta [%]  
 100 %  
 25 %  
 Q [m³/h]  
 Q = 14 m³/h  
 H = 13.5 m  
 n = 88 % (43.8Hz) / 2580 rpm  
 Líquido bombeado = Agua  
 Densidad = 998.2 kg/m³  
 Bomba eta = 61.4 %  
 Temperatura del líquido durante el funcionamiento = 20 °C  
 Bomb+motor+conv.frecuenc Eta = 49.2 %

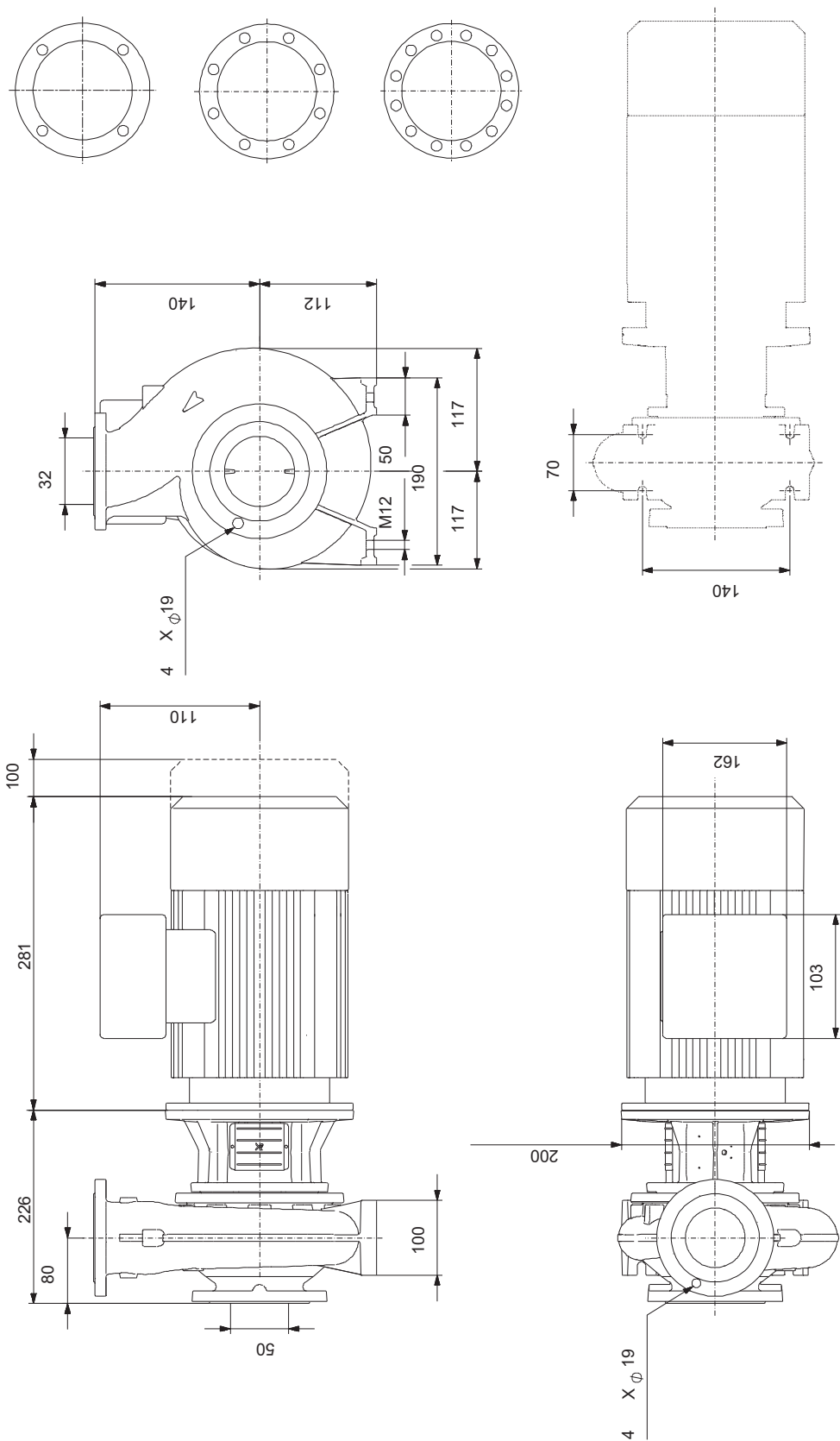
P [kW]  
 NPSH [m]  
 P1 (motor + conv. de frecuencia)  
 P2  
 P1 (motor + conv. de frecuencia) = 1.045 kW  
 P2 = 0.837 kW  
 NPSH = 1.01 m



| Descripción                              | Valor           |
|--|-----------------|
| Eficiencia del motor a una carga de 1/2: | 86.0-83.0 %     |
| Número de polos:                         | 2               |
| Grado de protección (IEC 34-5):          | 55 Dust/Jetting |
| Clase de aislamiento (IEC 85):           | F               |
| Protección de motor integrada:           | NINGUNA         |
| Motor N.º:                               | 99583820        |
| Diseño del montaje según norma CEI 34-7: | IM V1/B5        |
| Bearing insulation type N-end:           | Steel Bearing   |
| <b>Paneles control:</b>                  |                 |
| Convertidor de frecuencia:               | None            |
| Sensor de presión:                       | N               |
| <b>Otros:</b>                            |                 |
| Índice de eficiencia mínima, IE min:     | 0.70            |
| Peso neto:                               | 40 kg           |
| Peso bruto:                              | 50 kg           |
| Volumen de transporte:                   | 0.134 m³        |
| VVS danés n.º:                           | 386060142       |
| País de origen.:                         | HU              |
| Tarifa personalizada n.º:                | 84137051        |
| Idioma de la placa del motor:            | GB              |




98124465 NB 32-125.1/121 AAF2AESBQQEHW1 50 Hz



Nota: todas las unidades están en [mm] a menos que se indiquen otras. Exención de responsabilidad: este esquema dimensional simplificado no muestra todos los detalles.



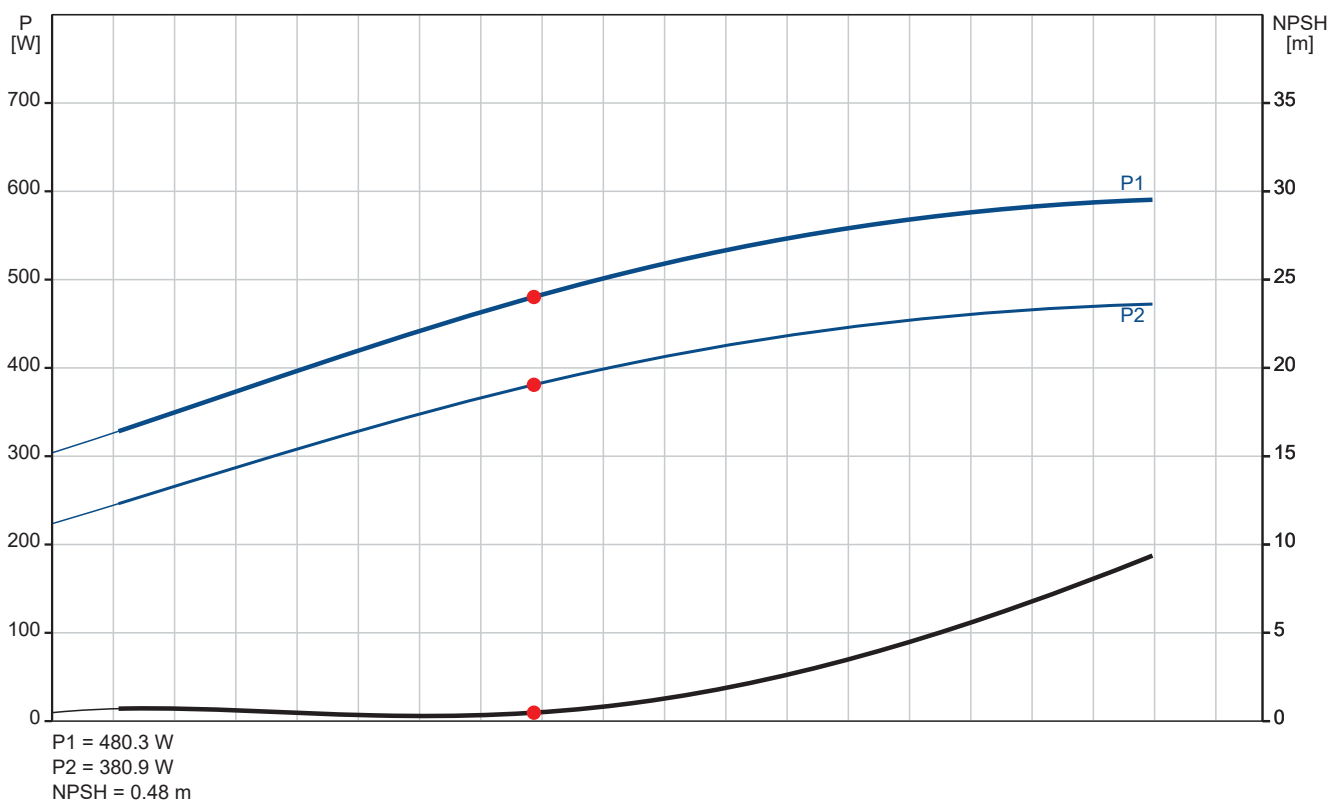
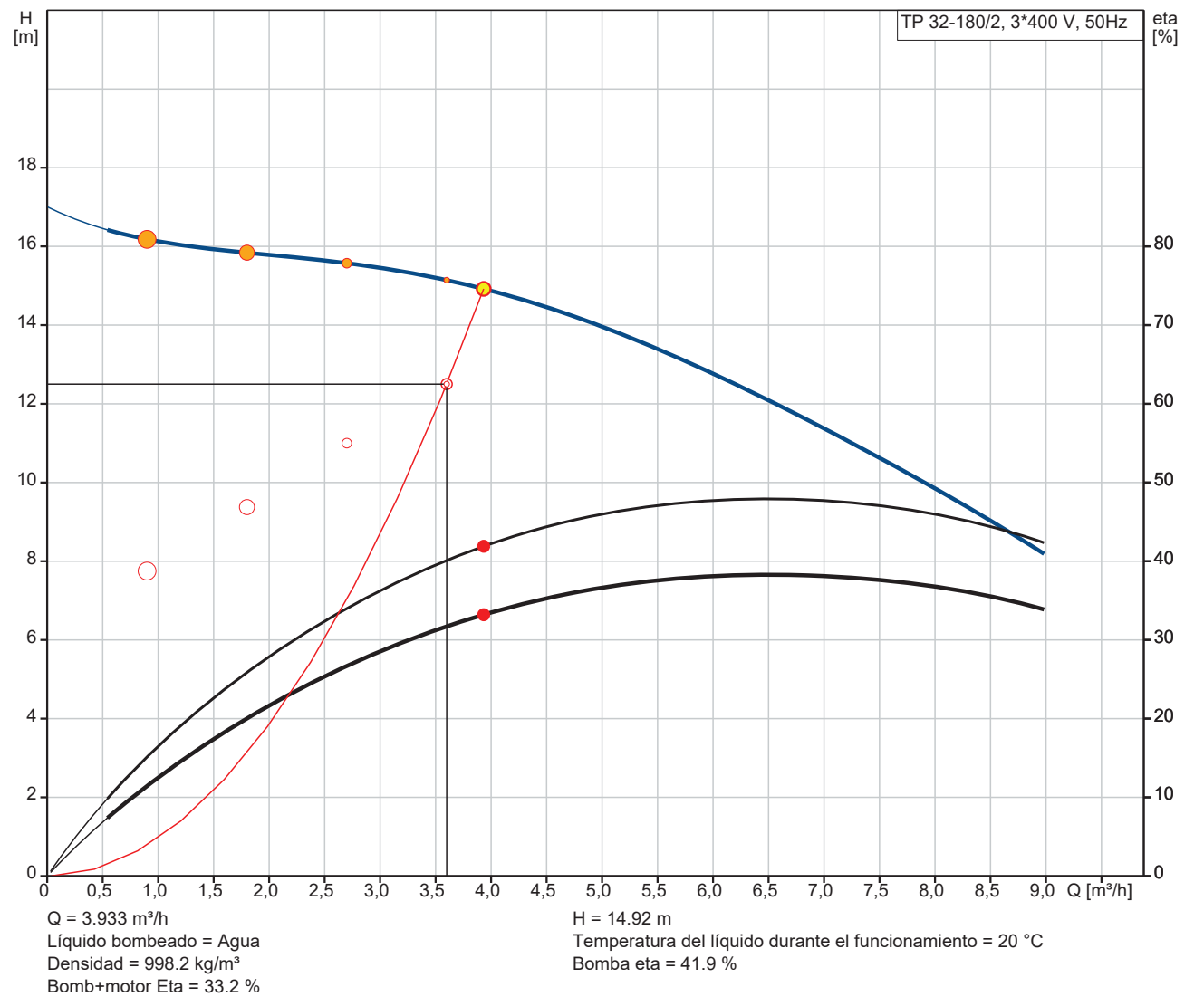
| Contar | Descripción   |
|--------|---|
| 1      | <div> <div> <div>TP 32-180/2 A-F-A-BQQE-EW1</div> <div>  </div> <div> <div>                     Código: 98592079                 </div> <div>                     Bomba de una etapa, acoplamiento cerrado y voluta con puertos de aspiración y descarga en línea de idéntico diámetro. El diseño de la bomba incluye un sistema de extracción superior que facilita el desmontaje del cabezal motor (el motor, el cabezal de la bomba y el impulsor) con fines de mantenimiento o reparación sin necesidad de desconectar las tuberías de la carcasa de la bomba.                 </div> <div>                     La bomba está equipada con un cierre de fuelle de caucho no equilibrado. El cierre mecánico satisface los requisitos establecidos por la norma EN 12756. La conexión de las tuberías se lleva a cabo por medio de bridas DIN de PN 6/10 (normas EN 1092-2 e ISO 7005-2).                 </div> <div>                     La bomba está equipada con un motor asíncrono refrigerado por ventilador.                 </div> <div> <div>Paneles control:</div> <div> <div>Frequency converter:</div> <div>None</div> </div> </div> <div> <div>Líquido:</div> <div> <div>Líquido bombeado:</div> <div>Agua</div> </div> <div> <div>Rango de temperatura del líquido:</div> <div>-25 .. 120 °C</div> </div> <div> <div>Temperatura del líquido durante el funcionamiento:</div> <div>20 °C</div> </div> <div> <div>Densidad:</div> <div>998.2 kg/m³</div> </div> <div> <div>Viscosidad cinemática:</div> <div>1 mm2/s</div> </div> </div> <div> <div>Técnico:</div> <div> <div>Velocidad predeterminada:</div> <div>2840 rpm</div> </div> <div> <div>Caudal real calculado:</div> <div>3.933 m³/h</div> </div> <div> <div>Altura resultante de la bomba:</div> <div>14.92 m</div> </div> <div> <div>Diámetro real del impulsor:</div> <div>118 mm</div> </div> <div> <div>Código del cierre:</div> <div>BQQE</div> </div> <div> <div>Tolerancia de curva:</div> <div>ISO9906:2012 3B2</div> </div> </div> <div> <div>Materiales:</div> <div> <div>Cuerpo hidráulico:</div> <div>Fundición</div> </div> <div> <div>Carcasa de la bomba:</div> <div>                     EN-GJL-250<br/>                     ASTM class 35                 </div> </div> <div> <div>Impulsor:</div> <div>                     Acero inoxidable<br/>                     EN 1.4301<br/>                     AISI 304                 </div> </div> </div> <div> <div>Instalación:</div> <div> <div>Rango de temperaturas ambientes:</div> <div>-30 .. 60 °C</div> </div> <div> <div>Presión de trabajo máxima:</div> <div>10 bar</div> </div> <div> <div>Presión máxima a la temp. declarada:</div> <div>10 bar / 120 °C</div> </div> <div> <div>Tipo de conexión:</div> <div>DIN</div> </div> <div> <div>Tamaño de la conexión:</div> <div>DN 32</div> </div> <div> <div>Presión nominal para la conexión:</div> <div>PN 6/10</div> </div> <div> <div>Longitud puerto a puerto:</div> <div>280 mm</div> </div> <div> <div>Tamaño de la brida del motor:</div> <div>FT85</div> </div> </div> <div> <div>Datos eléctricos:</div> <div> <div>Tipo de motor:</div> <div>71B</div> </div> <div> <div>Potencia nominal - P2:</div> <div>0.55 kW</div> </div> <div> <div>Frecuencia de red:</div> <div>50 Hz</div> </div> <div> <div>Tensión nominal:</div> <div>3 x 220-240D/380-415Y V</div> </div> </div> </div> </div> </div> |



| Contar | Descripción   |
|--------|---|
| 1      | <div>Intensidad nominal: 2.50/1.44 A</div> <div>Intensidad de arranque: 580-620 %</div> <div>Cos phi - factor de potencia: 0.80-0.70</div> <div>Velocidad nominal: 2830-2850 rpm</div> <div>Clase eficiencia IE: IE3</div> <div>Eficiencia del motor a carga total: 77.8 %</div> <div>Eficiencia del motor a una carga de 3/4: 81.5-78.5 %</div> <div>Eficiencia del motor a una carga de 1/2: 79.5-74.5 %</div> <div>Número de polos: 2</div> <div>Grado de protección (IEC 34-5): 55 Dust/Jetting</div> <div>Clase de aislamiento (IEC 85): F</div> <div>Motor N.º: 85805103</div> <div>Otros:</div> <div>Índice de eficiencia mínima, IE min: 0.70</div> <div>Peso neto: 21.5 kg</div> <div>Peso bruto: 25 kg</div> <div>Volumen de transporte: 0.08 m³</div> <div>VVS danés n.º: 381811180</div> <div>Finés: 4616016</div> <div>NRF noruego n.º: 9043527</div> <div>País de origen.: HU</div> <div>Tarifa personalizada n.º: 84137051</div> |



98592079 TP 32-180/2 A-F-A-BQQE-EW1 50 Hz





| Descripción  | Valor                         |
|--|-------------------------------|
| <b>Información general:</b>                        |                               |
| Producto::   | TP 32-180/2<br>A-F-A-BQQE-EW1 |
| Código::   | 98592079                      |
| Número EAN::                                       | 5711497802781                 |
| <b>Técnico:</b>                                    |                               |
| Velocidad predeterminada:                          | 2840 rpm                      |
| Caudal real calculado:                             | 3.933 m³/h                    |
| Altura resultante de la bomba:                     | 14.92 m                       |
| Altura máxima:                                     | 180 dm                        |
| Diámetro real del impulsor:                        | 118 mm                        |
| Código del cierre:                                 | BQQE                          |
| Tolerancia de curva:                               | ISO9906:2012 3B2              |
| Versión de la bomba:                               | A                             |
| <b>Materiales:</b>                                 |                               |
| Cuerpo hidráulico:                                 | Fundición                     |
| Carcasa de la bomba:                               | EN-GJL-250                    |
| Carcasa de la bomba:                               | ASTM class 35                 |
| Impulsor:  | Acero inoxidable              |
| Impulsor:  | EN 1.4301                     |
| Impulsor:  | AISI 304                      |
| Código de material:                                | A                             |
| <b>Instalación:</b>                                |                               |
| Rango de temperaturas ambientes:                   | -30 .. 60 °C                  |
| Presión de trabajo máxima:                         | 10 bar                        |
| Presión máxima a la temp. declarada:               | 10 bar / 120 °C               |
| Tipo de conexión:                                  | DIN                           |
| Tamaño de la conexión:                             | DN 32                         |
| Presión nominal para la conexión:                  | PN 6/10                       |
| Longitud puerto a puerto:                          | 280 mm                        |
| Tamaño de la brida del motor:                      | FT85                          |
| Código de conexión:                                | F                             |
| <b>Líquido:</b>                                    |                               |
| Líquido bombeado:                                  | Agua                          |
| Rango de temperatura del líquido:                  | -25 .. 120 °C                 |
| Temperatura del líquido durante el funcionamiento: | 20 °C                         |
| Densidad:  | 998.2 kg/m³                   |
| Viscosidad cinemática:                             | 1 mm2/s                       |
| <b>Datos eléctricos:</b>                           |                               |
| Tipo de motor:                                     | 71B                           |
| Potencia nominal - P2:                             | 0.55 kW                       |
| Frecuencia de red:                                 | 50 Hz                         |
| Tensión nominal:                                   | 3 x 220-240D/380-415Y V       |
| Intensidad nominal:                                | 2.50/1.44 A                   |
| Intensidad de arranque:                            | 580-620 %                     |
| Cos phi - factor de potencia:                      | 0.80-0.70                     |
| Velocidad nominal:                                 | 2830-2850 rpm                 |
| Clase eficiencia IE:                               | IE3                           |
| Eficiencia del motor a carga total:                | 77.8 %                        |
| Eficiencia del motor a una carga de 3/4:           | 81.5-78.5 %                   |
| Eficiencia del motor a una carga de 1/2:           | 79.5-74.5 %                   |
| Número de polos:                                   | 2                             |
| Grado de protección (IEC 34-5):                    | 55 Dust/Jetting               |
| Clase de aislamiento (IEC 85):                     | F                             |
| Protección de motor integrada:                     | NINGUNA                       |
| Motor N.º:   | 85805103                      |
| <b>Paneles control:</b>                            |                               |
| Convertidor de frecuencia:                         | None                          |
| <b>Otros:</b>                                      |                               |
| Índice de eficiencia mínima, IE min:               | 0.70                          |
| Peso neto:   | 21.5 kg                       |

TP 32-180/2, 3\*400 V, 50Hz

Q = 3.933 m³/h      H = 14.92 m  
Líquido bombeado = Agua      Densidad = 998.2 kg/m³  
Bomba eta = 41.9 %      Bomba+motor Eta = 33.2 %  
Temperatura del líquido durante el funcionamiento = 20 °C

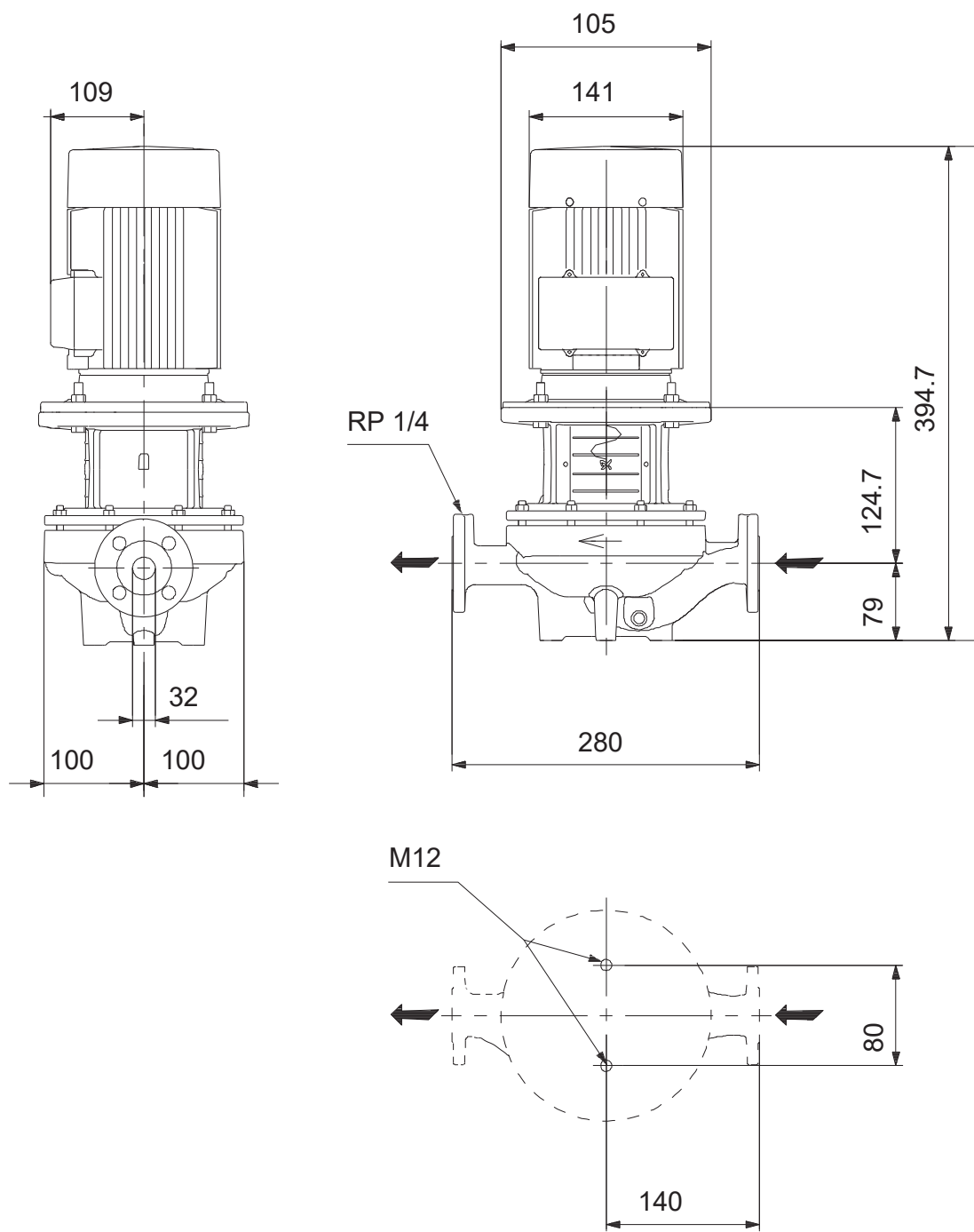
P1 = 480.3 W  
P2 = 380.9 W  
NPSH = 0.48 m



| Descripción               | Valor     |
|---------------------------|-----------|
| Peso bruto:               | 25 kg     |
| Volumen de transporte:    | 0.08 m³   |
| VVS danés n.º:            | 381811180 |
| Finés:                    | 4616016   |
| NRF noruego n.º:          | 9043527   |
| País de origen.:          | HU        |
| Tarifa personalizada n.º: | 84137051  |



98592079 TP 32-180/2 A-F-A-BQQE-EW1 50 Hz



Nota: todas las unidades están en [mm] a menos que se indiquen otras. Exención de responsabilidad: este esquema dimensional simplificado no muestra todos los detalles.









Empresa:  
 Creado Por:  
 Teléfono:

Datos: 23 03 2020

| Contar | Descripción |       |     |         |      |  |  |   |   |                     |
|--------|-------------|-------|-----|---------|------|--|--|---|---|---------------------|
|        |             |       |     |         |      |  |  |   |   | M                   |
|        | a           |       | a   |         |      |  |  |   |   | 3                   |
| P      | a           |       | a   | P2      |      |  |  |   |   | 45 kW               |
|        |             | a     |     |         |      |  |  |   |   | 50                  |
|        |             |       | a   |         |      |  |  |   |   | 3 x 380 420 660 725 |
|        | a           |       | a   |         |      |  |  |   |   | 83,0 77,0 48,0 44,5 |
|        |             |       | a a |         |      |  |  |   |   | 400                 |
|        | a           |       | a   |         | a    |  |  |   |   | 80                  |
|        | a           | a     | a   |         |      |  |  |   |   | 640 640 %           |
|        |             | a     |     |         | a    |  |  |   |   | 0 86                |
|        | a           |       | a   |         |      |  |  |   |   | 1480                |
|        | a           |       |     |         |      |  |  |   |   | 3 94,2%             |
|        | a           |       |     | a a a a |      |  |  |   |   | 94 2 94 2 %         |
|        | a           |       |     | a a a a |      |  |  |   |   | 3 4 94 9 94 9 %     |
|        | a           |       |     | a a a a |      |  |  |   |   | 1 2 95 1 95 1 %     |
|        |             |       |     |         |      |  |  |   |   | 4                   |
|        | a           |       |     |         | 34 5 |  |  |   |   | P55                 |
|        | a           | a     | a   |         | 85   |  |  |   |   |                     |
| M      |             |       |     |         |      |  |  |   |   | 98957821            |
|        |             | a     |     |         |      |  |  |   |   | a                   |
|        | Otros:      |       |     |         |      |  |  |   |   |                     |
|        |             |       | a   | a, M    |      |  |  |   |   | 0 63                |
|        | a           | P     |     |         |      |  |  | a | P | P                   |
| P      |             |       |     |         |      |  |  |   |   | 814 k               |
| P      |             |       |     |         |      |  |  |   |   | 882 k               |
|        |             |       | a   |         |      |  |  |   |   | 1 61                |
| Pa     |             |       |     |         |      |  |  |   |   |                     |
| a a    |             | a a a |     |         |      |  |  |   |   | 84137059            |

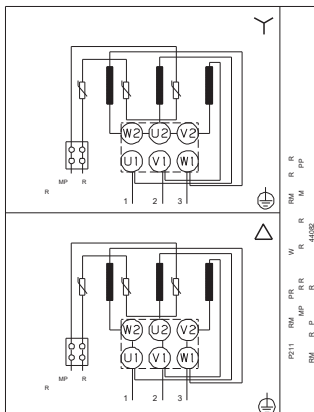
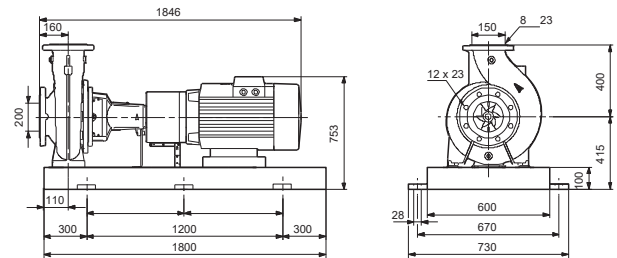
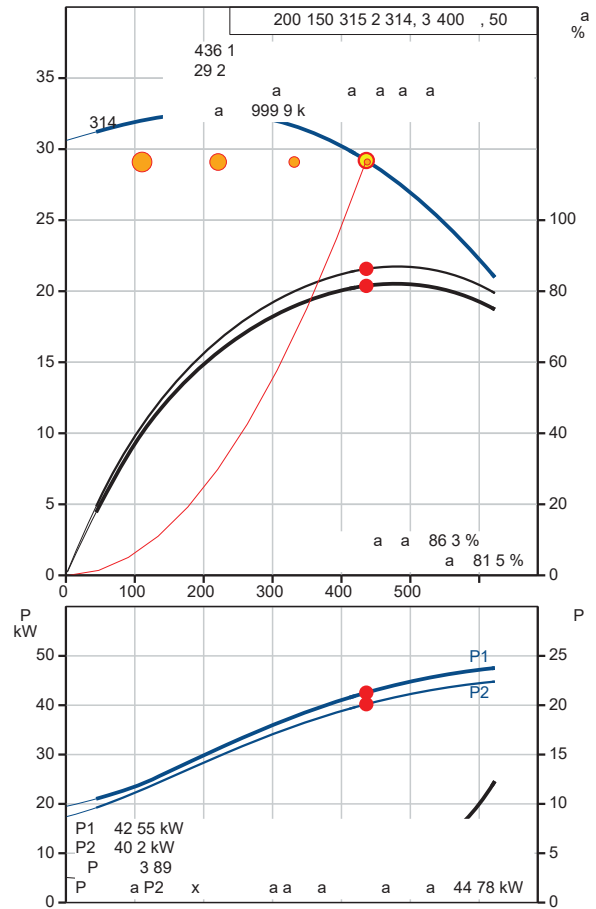




**Empresa:**  
**Creado Por:**  
**Teléfono:**

**Datos:** 23 03 2020

| Descripción                 | Valor               |
|-----------------------------|---------------------|
| <b>Información general:</b> |                     |
| P                           | 200 150 315 2 314   |
|                             | 2 2                 |
|                             | 98983390            |
|                             | 5712604677728       |
|                             | 5712604677728       |
| <b>Técnico:</b>             |                     |
| a a a a a                   | 1480                |
| a a a a a                   | 436 1               |
| a a a a a                   | 29 2                |
| a a a a a                   | 314                 |
| a a a a a                   | 315 2               |
| a a a a a                   | 48                  |
| a a a a a                   | 9906 2012 3         |
| a a a a a                   | 2                   |
| P a x a P2 a a              | 44 78 kW            |
| <b>Materiales:</b>          |                     |
| a a a a a                   | 250                 |
| a a a a a                   | M 48 40             |
| a a a a a                   | 200                 |
| a a a a a                   | M 48 30             |
| a a a a a                   | P M                 |
| Ma a a a a                  | a a a a a           |
|                             | 34M 3 2             |
| <b>Instalación:</b>         |                     |
| a a a a x a                 | 55                  |
| P a a x a                   | 16 a                |
| a a a a                     | 1092 2              |
| a a a a                     | 200                 |
| a a a a                     | 150                 |
| P a a                       | P 16                |
| a a a a                     | a a                 |
| a a a a                     | a a a a             |
| a a a a                     | x                   |
| <b>Líquido:</b>             |                     |
| a a a a a                   | a a a a a           |
| Ra a a a                    | 0 120               |
| a a a a                     | 999 9 k             |
| <b>Datos eléctricos:</b>    |                     |
| a a a a                     | M                   |
| a a a a                     | 3                   |
| P a a P2                    | 45 kW               |
| a a a a                     | 50                  |
| a a a a                     | 3 x 380 420 660 725 |
| a a a a                     | 83,0 77,0 48,0 44,5 |
| a a a a                     | 400                 |
| a a a a                     | 80                  |







**Empresa:**  
**Creado Por:**  
**Teléfono:**

**Datos:** 23 03 2020

| Descripción   | Valor       |
|---------------|-------------|
| a a a         | 640 640 %   |
| a a           | 0 86        |
| a a           | 1480        |
| a             | 3 94,2%     |
| a a a a a     | 94 2 94 2 % |
| 3 4 a a a a   | 94 9 94 9 % |
| 1 2 a a a a   | 95 1 95 1 % |
|               | 4           |
| a 34 5        | P55         |
| a a a 85      |             |
| P             | P           |
| M             | 98957821    |
| a             | a           |
| <b>Otros:</b> |             |
| a a, M        | 0 63        |
| a P           | P P a       |
| P             | 814 k       |
| P             | 882 k       |
| a             | 1 61        |
| Pa            |             |
| a a a a a     | 84137059    |

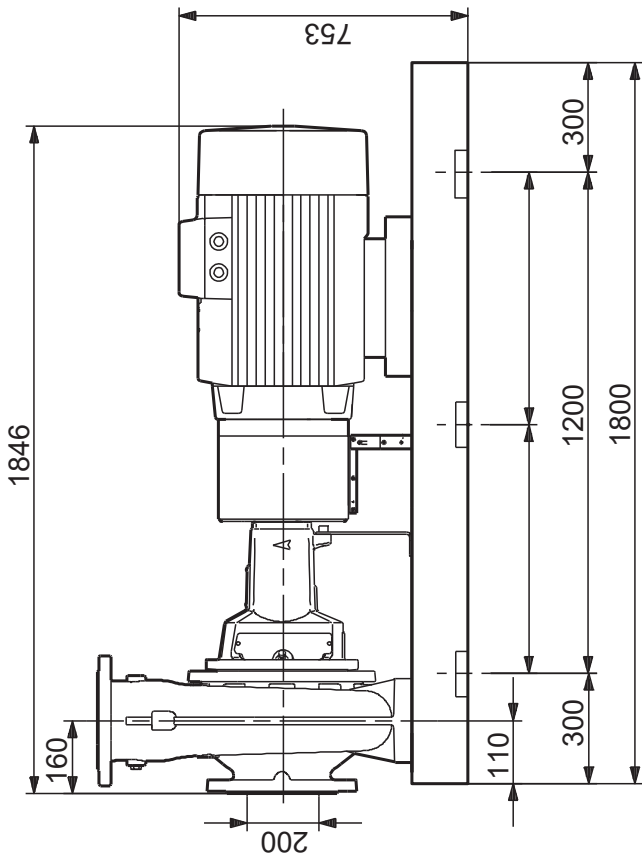
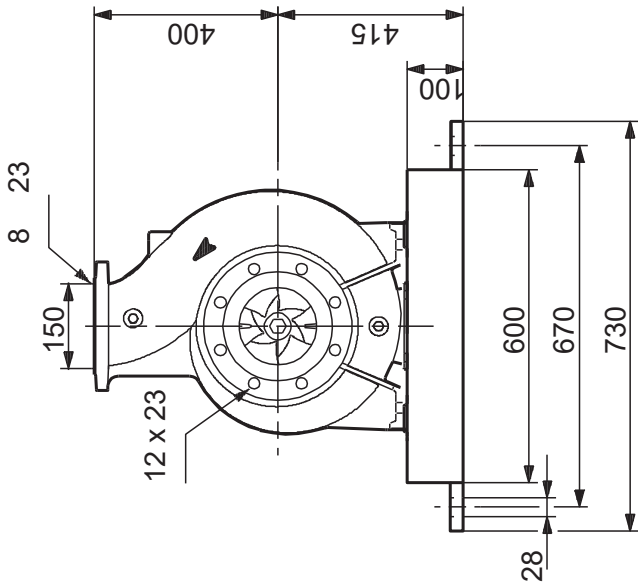




Empresa:  
 Creado Por:  
 Teléfono:

Datos: 23 03 2020

98983390 NKG 200-150-315.2/314 A2F2AE-SBAQE 50 Hz



a a a a a a a x a a a a



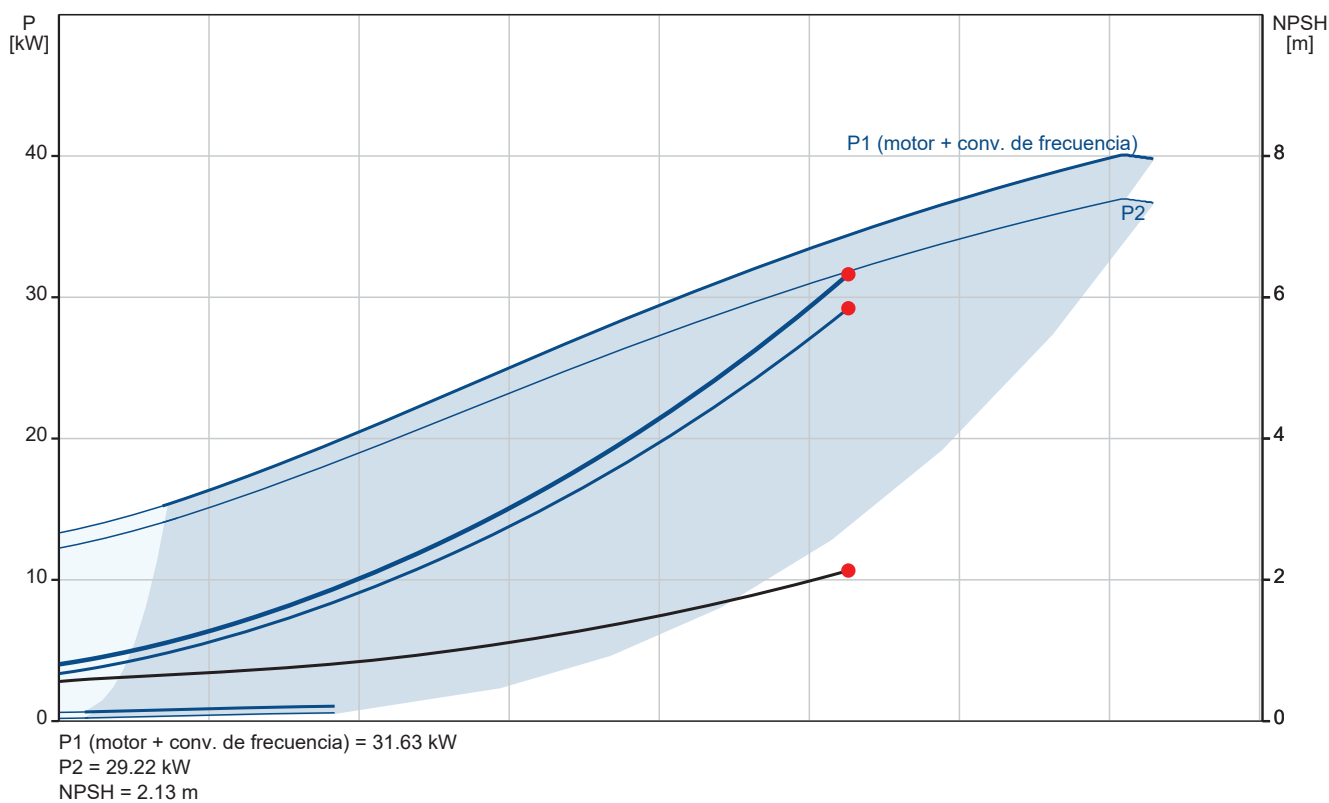
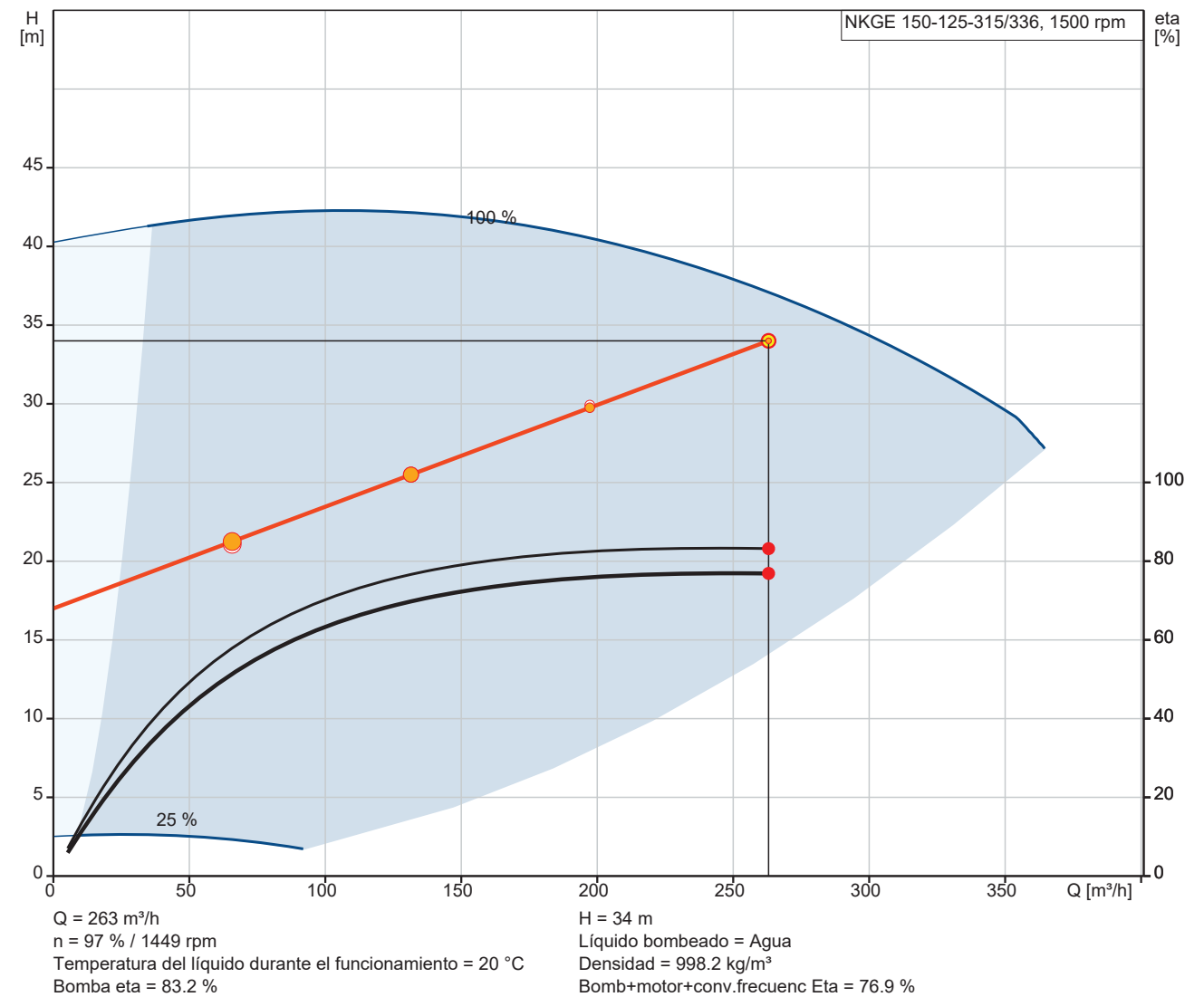
| Contar | Descripción  |
|--------|--|
| 1      | <div> <div> <div>NKGE 150-125-315/336 AA1F2AESBQQESW3</div> <div>  </div> <div> <div>Advertia! la foto puede diferir del actual producto</div> <div>Código: 93036257</div> </div> </div> <div> <p>Bomba centrífuga no autocebante de una etapa diseñada de acuerdo con la norma ISO 5199, con dimensiones y rendimiento nominal de acuerdo con la norma ISO 2858. Las bridas son de PN 16 y sus dimensiones satisfacen los requisitos establecidos por la norma EN 1092-2. La bomba posee un puerto de aspiración axial, un puerto de descarga radial y un eje horizontal.</p> <p>Su diseño incluye un sistema de extracción trasera que permite desmontar el acoplamiento, el soporte de los cojinetes y el impulsor sin que esto afecte al motor, la carcasa de la bomba o las tuberías.</p> <p>El cierre de fuelle de caucho no equilibrado satisface los requisitos establecidos por la norma DIN EN 12756. La bomba está equipada con un motor síncrono de imanes permanentes, refrigerado por ventilador y montado sobre soportes. La bomba y el motor se encuentran montados en una bancada común.</p> <p>El motor incluye un convertidor de frecuencia y un controlador PI en la caja de conexiones. Ello facilita el control variable y continuo de la velocidad del motor, lo cual, a su vez, permite adaptar el rendimiento a un determinado conjunto de requisitos.</p> <p>Paneles control:</p> <p>Código de producto VFD: 99616824</p> <p>Frequency converter: Built-in</p> <p>Tipo de convertidor de frecuencia: CUE 3X380-500V IP55 RUG 37KW</p> <p>Homol. para VFD: CE, CULUS, C-TICK</p> <p>Sensor de presión: N</p> <p>Líquido:</p> <p>Líquido bombeado: Agua</p> <p>Rango de temperatura del líquido: -25 .. 120 °C</p> <p>Temperatura del líquido durante el funcionamiento: 20 °C</p> <p>Densidad: 998.2 kg/m³</p> <p>Viscosidad cinemática: 1 mm2/s</p> <p>Técnico:</p> <p>Velocidad de bomba en la que se basan los datos de bomba: 1449 rpm</p> <p>Caudal real calculado: 263 m³/h</p> <p>Bomba con motor: Y</p> <p>Altura resultante de la bomba: 34 m</p> <p>Diámetro real del impulsor: 336 mm</p> <p>Diámetro nominal del impulsor: 315</p> <p>Tipo de impulsor: Standard</p> <p>Código del cierre: BQQE</p> <p>Tipo de cierre mecánico: Single</p> <p>Tolerancia de curva: ISO9906:2012 3B</p> <p>Diseño rodamiento: Standard</p> <p>Materiales:</p> <p>Cuerpo hidráulico: Fundición</p> <p>Carcasa de la bomba: EN-GJL-250</p> <p>ASTM class 35</p> <p>Mat. de anillo de desgaste: Latón</p> <p>Impulsor: Fundición</p> <p>EN-GJL-200</p> <p>ASTM class 30</p> <p>Internal pump house coating: CED</p> <p>Eje: Stainless steel</p> <p>EN 1.4301</p> </div> </div> |



| Contar | Descripción  |
|--------|--|
| 1      | <p>AISI 304</p> <p>Instalación:</p> <p>Rango de temperaturas ambientes: -10 .. 50 °C</p> <p>Presión de trabajo máxima: 16 bar</p> <p>Normativa de conexión de tubería: EN 1092-2</p> <p>Tipo de conexión de entrada: DIN</p> <p>Tipo de conexión de salida: DIN</p> <p>Tamaño de la conexión de entrada: DN 150</p> <p>Tamaño de la conexión de salida: DN 125</p> <p>Presión nominal para la conexión: PN 16</p> <p>Tipo de acoplamiento: Flexible w/o spacer</p> <p>Base frame design: EN/ISO</p> <p>Code for base frame: 9B ST</p> <p>Grouting (Yes/No): N</p> <p>Datos eléctricos:</p> <p>Tipo de motor: 225S</p> <p>Potencia nominal - P2: 37 kW</p> <p>Frecuencia de red: 50 Hz</p> <p>Tensión nominal: 3 x 400 V</p> <p>Intensidad nominal: 70 A</p> <p>Cos phi - factor de potencia: 0.95</p> <p>Velocidad nominal: 150-1500 rpm</p> <p>Clase eficiencia IE: IE5</p> <p>Eficiencia del motor a carga total: 94.7 %</p> <p>Número de polos: 4</p> <p>Grado de protección (IEC 34-5): IP55</p> <p>Clase de aislamiento (IEC 85): F</p> <p>Motor N.º: 92928098</p> <p>Bearing insulation type N-end: N</p> <p>Otros:</p> <p>Índice de eficiencia mínima, IE min: 0.63</p> <p>Peso neto: 638 kg</p> <p>Peso bruto: 794 kg</p> <p>Volumen de transporte: 3.09 m³</p> <p>País de origen.: HU</p> <p>Tarifa personalizada n.º: 84137059</p> <p>Idioma de la placa del motor: GB</p> |

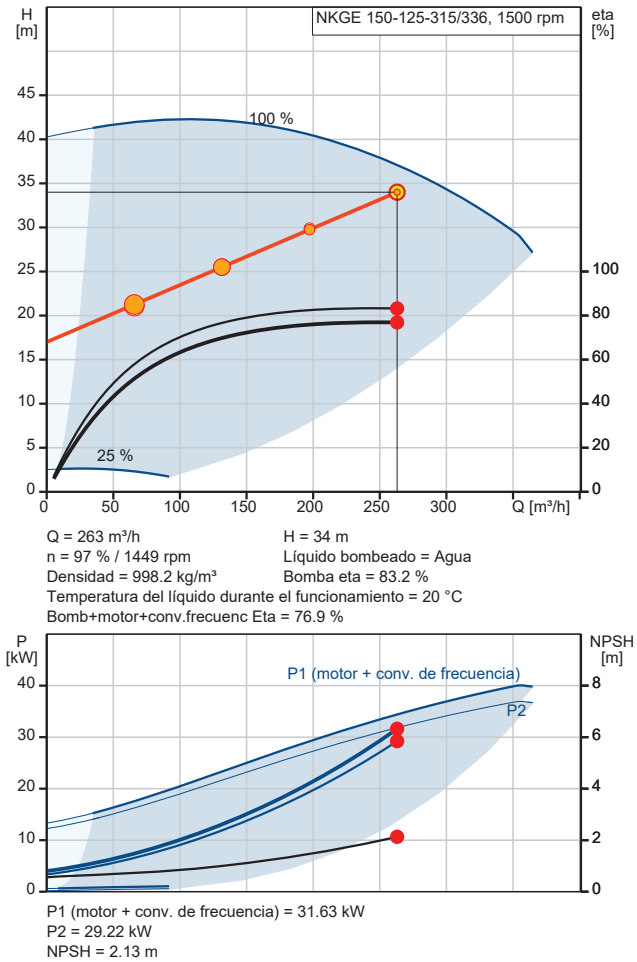


93036257 NKGE 150-125-315/336 AA1F2AESBQQESW3 50 Hz





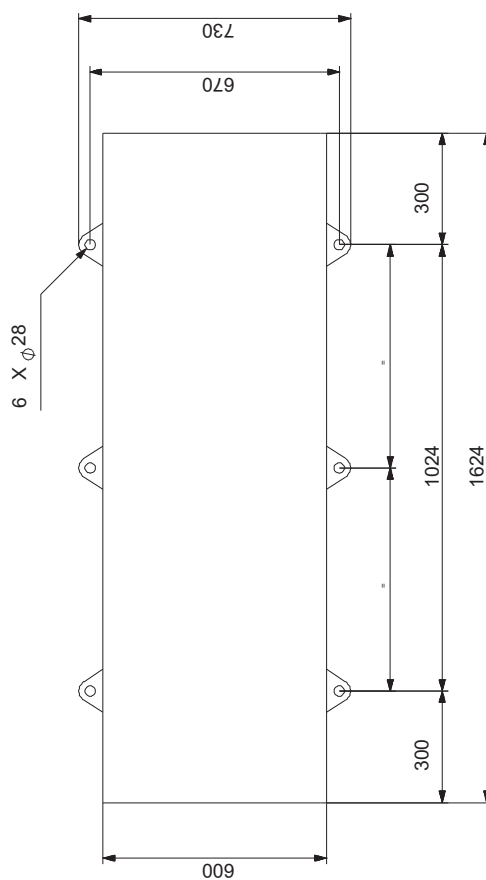
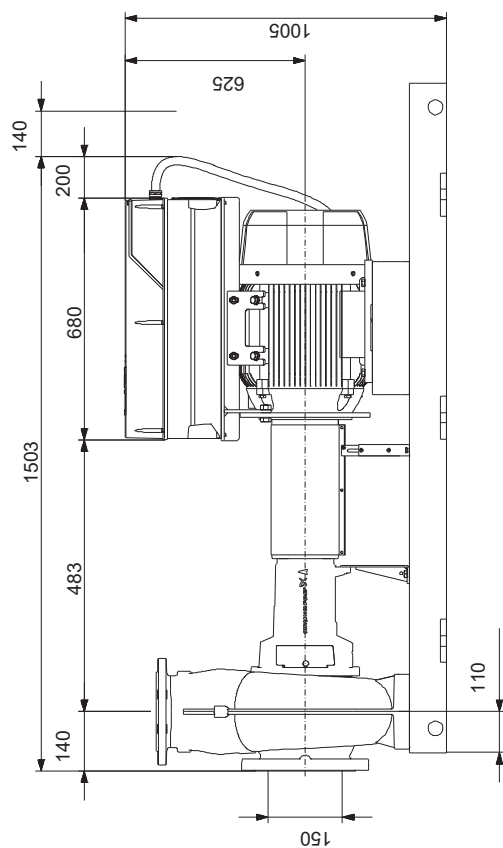
| Descripción   | Valor                                   |
|---|---|
| <b>Información general:</b>                               |   |
| Producto::  | NKGE 150-125-315/336<br>AA1F2AESBQQESW3 |
| Código::  | 93036257                                |
| Número EAN::  | 5715123313603                           |
| <b>Técnico:</b>   |   |
| Velocidad de bomba en la que se basan los datos de bomba: | 1449 rpm                                |
| Caudal real calculado:                                    | 263 m³/h                                |
| Bomba con motor:  | Y                                       |
| Altura resultante de la bomba:                            | 34 m                                    |
| Diámetro real del impulsor:                               | 336 mm                                  |
| Diámetro nominal del impulsor:                            | 315                                     |
| Tipo de impulsor:   | Standard                                |
| Diámetro del eje:   | 42 mm                                   |
| Código del cierre:  | BQQE                                    |
| Tipo de cierre mecánico:                                  | Single                                  |
| Tolerancia de curva:                                      | ISO9906:2012 3B                         |
| Versión de la bomba:                                      | A1                                      |
| Diseño rodamiento:  | Standard                                |
| <b>Materiales:</b>  |   |
| Cuerpo hidráulico:  | Fundición                               |
| Carcasa de la bomba:                                      | EN-GJL-250                              |
| Carcasa de la bomba:                                      | ASTM class 35                           |
| Mat. de anillo de desgaste:                               | Latón                                   |
| Impulsor:   | Fundición                               |
| Impulsor:   | EN-GJL-200                              |
| Impulsor:   | ASTM class 30                           |
| Internal pump house coating:                              | CED                                     |
| Código de material:                                       | A                                       |
| Código para caucho:                                       | E                                       |
| Eje:  | Stainless steel                         |
| Eje:  | EN 1.4301                               |
| Eje:  | AISI 304                                |
| <b>Instalación:</b>                                       |   |
| Rango de temperaturas ambientes:                          | -10 .. 50 °C                            |
| Presión de trabajo máxima:                                | 16 bar                                  |
| Normativa de conexión de tubería:                         | EN 1092-2                               |
| Tipo de conexión de entrada:                              | DIN                                     |
| Tipo de conexión de salida:                               | DIN                                     |
| Tamaño de la conexión de entrada:                         | DN 150                                  |
| Tamaño de la conexión de salida:                          | DN 125                                  |
| Presión nominal para la conexión:                         | PN 16                                   |
| Tipo de acoplamiento:                                     | Flexible w/o spacer                     |
| Base frame design:  | EN/ISO                                  |
| Code for base frame:                                      | 9B ST                                   |
| Grouting (Yes/No):  | N                                       |
| Código de conexión:                                       | F                                       |
| <b>Líquido:</b>   |   |
| Líquido bombeado:   | Agua                                    |
| Rango de temperatura del líquido:                         | -25 .. 120 °C                           |
| Temperatura del líquido durante el funcionamiento:        | 20 °C                                   |
| Densidad:   | 998.2 kg/m³                             |
| Viscosidad cinemática:                                    | 1 mm2/s                                 |
| <b>Datos eléctricos:</b>                                  |   |
| Tipo de motor:  | 225S                                    |
| Potencia nominal - P2:                                    | 37 kW                                   |
| Frecuencia de red:  | 50 Hz                                   |





| Descripción                          | Valor                        |
|--------------------------------------|------------------------------|
| Tensión nominal:                     | 3 x 400 V                    |
| Intensidad nominal:                  | 70 A                         |
| Cos phi - factor de potencia:        | 0.95                         |
| Velocidad nominal:                   | 150-1500 rpm                 |
| Clase eficiencia IE:                 | IE5                          |
| Eficiencia del motor a carga total:  | 94.7 %                       |
| Número de polos:                     | 4                            |
| Grado de protección (IEC 34-5):      | IP55                         |
| Clase de aislamiento (IEC 85):       | F                            |
| Protección de motor integrada:       | PTC/PT1                      |
| Motor N.º:                           | 92928098                     |
| Bearing insulation type N-end:       | N                            |
| <b>Paneles control:</b>              |                              |
| Código de producto VFD:              | 99616824                     |
| Convertidor de frecuencia:           | Built-in                     |
| Tipo de convertidor de frecuencia:   | CUE 3X380-500V IP55 RUG 37KW |
| Homol. para VFD:                     | CE, CULUS, C-TICK            |
| Sensor de presión:                   | N                            |
| <b>Otros:</b>                        |                              |
| Índice de eficiencia mínima, IE min: | 0.63                         |
| Peso neto:                           | 638 kg                       |
| Peso bruto:                          | 794 kg                       |
| Volumen de transporte:               | 3.09 m³                      |
| País de origen.:                     | HU                           |
| Tarifa personalizada n.º:            | 84137059                     |
| Idioma de la placa del motor:        | GB                           |





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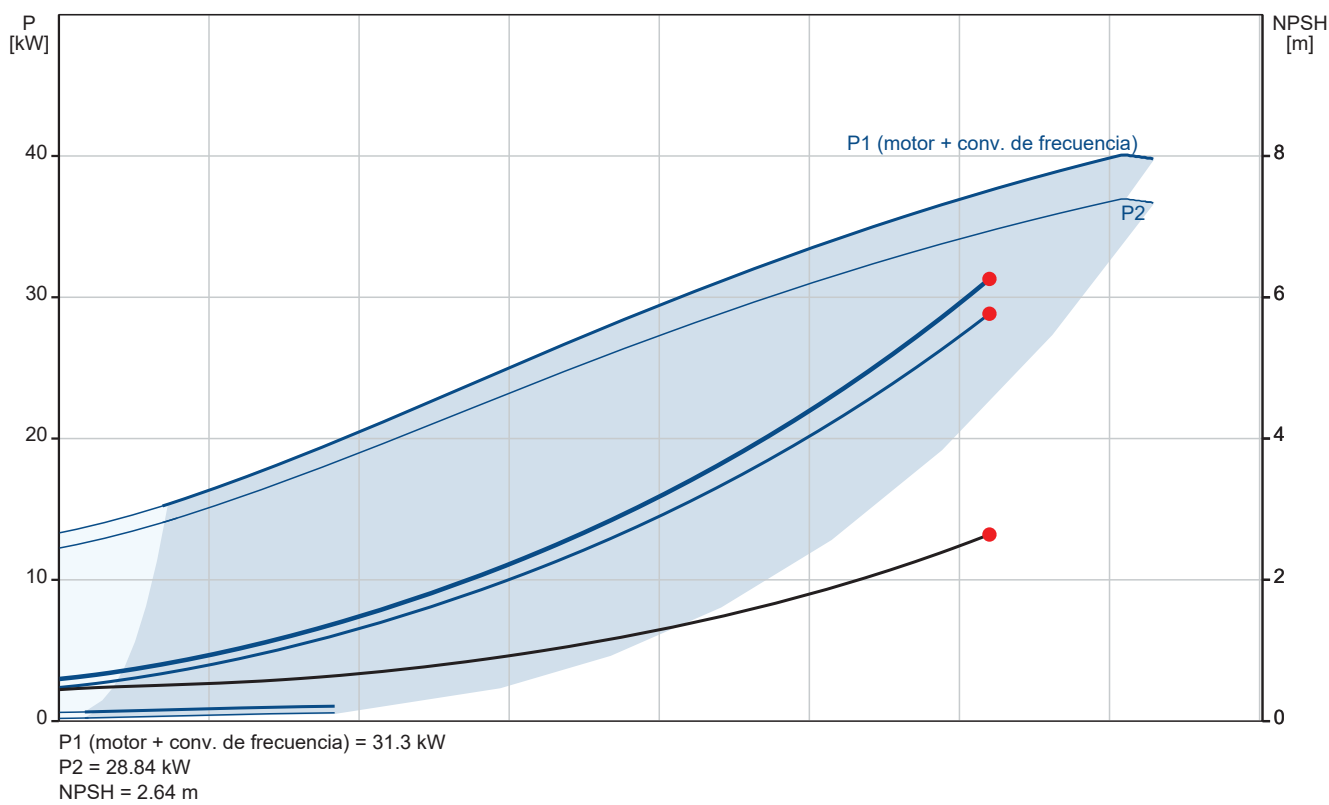
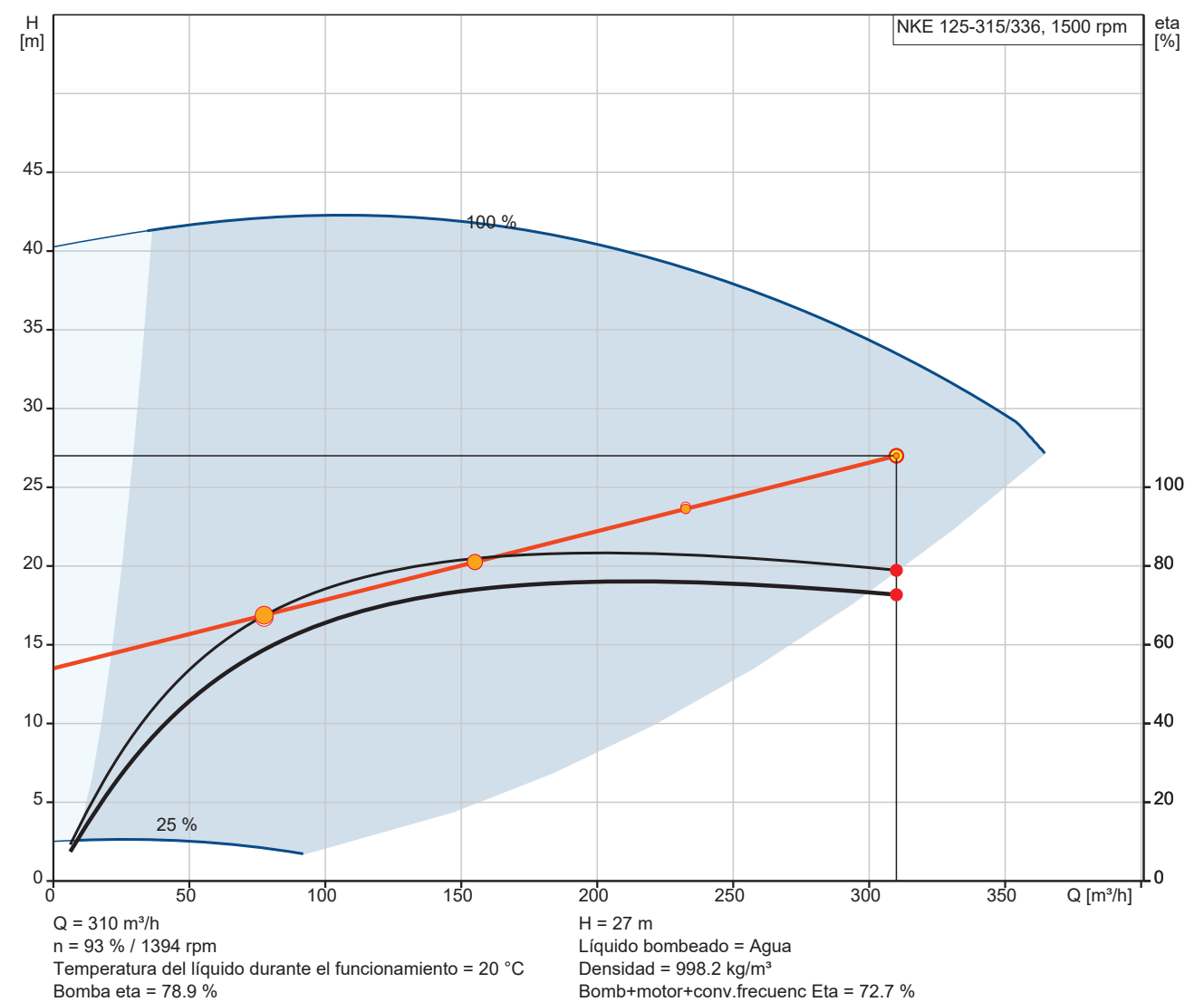
| Contar | Descripción  |
|--------|--|
| 1      | <div> <div> <div>NKE 125-315/336 AA2F2AESBQQESW3</div> <div>  </div> </div> <div> <div> <div>Advertia! la foto puede diferir del actual producto</div> <div>Código: 93036229</div> </div> <div> <p>Bomba centrífuga de voluta, no autocebante y de una etapa, diseñada de acuerdo con la norma ISO 5199, con dimensiones y rendimiento nominal de acuerdo con la norma EN 733. Las bridas son de PN 16 y sus dimensiones satisfacen los requisitos establecidos por la norma EN 1092-2. La bomba posee un puerto de aspiración axial, un puerto de descarga radial y un eje horizontal.</p> <p>Su diseño incluye un sistema de extracción trasera que permite desmontar el acoplamiento, el soporte de los cojinetes y el impulsor sin que esto afecte al motor, la carcasa de la bomba o las tuberías.</p> <p>El cierre de fuelle de caucho no equilibrado satisface los requisitos establecidos por la norma DIN EN 12756. La bomba está equipada con un motor síncrono de imanes permanentes, refrigerado por ventilador y montado sobre soportes. La bomba y el motor se encuentran montados en una bancada común.</p> <p>El motor incluye un convertidor de frecuencia y un controlador PI en la caja de conexiones. Ello facilita el control variable y continuo de la velocidad del motor, lo cual, a su vez, permite adaptar el rendimiento a un determinado conjunto de requisitos.</p> <p>Paneles control:</p> <p>Código de producto VFD: 99616824</p> <p>Frequency converter: Built-in</p> <p>Tipo de convertidor de frecuencia: CUE 3X380-500V IP55 RUG 37KW</p> <p>Homol. para VFD: CE, CULUS, C-TICK</p> <p>Sensor de presión: N</p> <p>Líquido:</p> <p>Líquido bombeado: Agua</p> <p>Rango de temperatura del líquido: -25 .. 120 °C</p> <p>Temperatura del líquido durante el funcionamiento: 20 °C</p> <p>Densidad: 998.2 kg/m³</p> <p>Viscosidad cinemática: 1 mm2/s</p> <p>Técnico:</p> <p>Velocidad de bomba en la que se basan los datos de bomba: 1394 rpm</p> <p>Caudal real calculado: 310 m³/h</p> <p>Bomba con motor: Y</p> <p>Altura resultante de la bomba: 27 m</p> <p>Diámetro real del impulsor: 336 mm</p> <p>Diámetro nominal del impulsor: 315</p> <p>Código del cierre: BQQE</p> <p>Tipo de cierre mecánico: Single</p> <p>Tolerancia de curva: ISO9906:2012 3B</p> <p>Diseño rodamiento: Standard</p> <p>Materiales:</p> <p>Cuerpo hidráulico: Fundición</p> <p>Carcasa de la bomba: EN-GJL-250</p> <p>ASTM class 35</p> <p>Mat. de anillo de desgaste: Latón</p> <p>Impulsor: Fundición</p> <p>EN-GJL-200</p> <p>ASTM class 30</p> <p>Internal pump house coating: CED</p> <p>Eje: Stainless steel</p> <p>EN 1.4301</p> <p>AISI 304</p> </div> </div> </div> |



| Contar | Descripción  |
|--------|--|
| 1      | <p>Instalación:</p> <p>Rango de temperaturas ambientes: -10 .. 50 °C</p> <p>Presión de trabajo máxima: 16 bar</p> <p>Normativa de conexión de tubería: EN 1092-2</p> <p>Tipo de conexión de entrada: DIN</p> <p>Tipo de conexión de salida: DIN</p> <p>Tamaño de la conexión de entrada: DN 150</p> <p>Tamaño de la conexión de salida: DN 125</p> <p>Presión nominal para la conexión: PN 16</p> <p>Tipo de acoplamiento: Flexible w/spacer</p> <p>Base frame design: EN/ISO</p> <p>Code for base frame: 9</p> <p>Grouting (Yes/No): N</p> <p>Datos eléctricos:</p> <p>Tipo de motor: 225S</p> <p>Potencia nominal - P2: 37 kW</p> <p>Frecuencia de red: 50 Hz</p> <p>Tensión nominal: 3 x 400 V</p> <p>Intensidad nominal: 70 A</p> <p>Cos phi - factor de potencia: 0.95</p> <p>Velocidad nominal: 150-1500 rpm</p> <p>Clase eficiencia IE: IE5</p> <p>Eficiencia del motor a carga total: 94.7 %</p> <p>Número de polos: 4</p> <p>Grado de protección (IEC 34-5): IP55</p> <p>Clase de aislamiento (IEC 85): F</p> <p>Motor N.º: 92928098</p> <p>Bearing insulation type N-end: N</p> <p>Otros:</p> <p>Índice de eficiencia mínima, IE min: 0.63</p> <p>Peso neto: 633 kg</p> <p>Peso bruto: 789 kg</p> <p>Volumen de transporte: 3.09 m³</p> <p>País de origen.: HU</p> <p>Tarifa personalizada n.º: 84137059</p> <p>Idioma de la placa del motor: GB</p> |



93036229 NKE 125-315/336 AA2F2AESBQQESW3 50 Hz





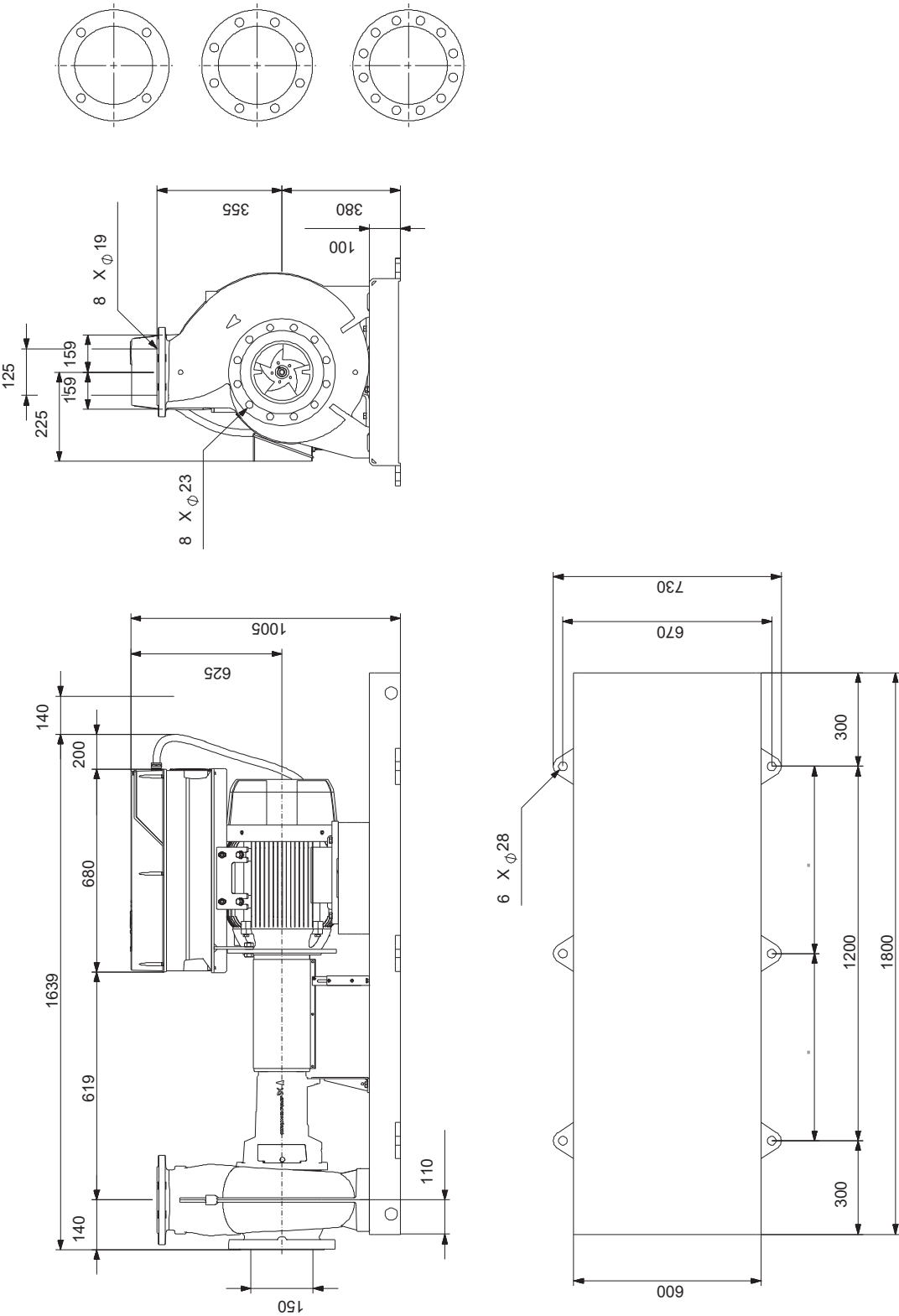




| Descripción                          | Valor                           |
|--------------------------------------|---------------------------------|
| Cos phi - factor de potencia:        | 0.95                            |
| Velocidad nominal:                   | 150-1500 rpm                    |
| Clase eficiencia IE:                 | IE5                             |
| Eficiencia del motor a carga total:  | 94.7 %                          |
| Número de polos:                     | 4                               |
| Grado de protección (IEC 34-5):      | IP55                            |
| Clase de aislamiento (IEC 85):       | F                               |
| Protección de motor integrada:       | PTC/PT1                         |
| Motor N.º:                           | 92928098                        |
| Bearing insulation type N-end:       | N                               |
| <b>Paneles control:</b>              |                                 |
| Código de producto VFD:              | 99616824                        |
| Convertidor de frecuencia:           | Built-in                        |
| Tipo de convertidor de frecuencia:   | CUE 3X380-500V IP55 RUG<br>37KW |
| Homol. para VFD:                     | CE, CULUS, C-TICK               |
| Sensor de presión:                   | N                               |
| <b>Otros:</b>                        |                                 |
| Índice de eficiencia mínima, IE min: | 0.63                            |
| Peso neto:                           | 633 kg                          |
| Peso bruto:                          | 789 kg                          |
| Volumen de transporte:               | 3.09 m³                         |
| País de origen.:                     | HU                              |
| Tarifa personalizada n.º:            | 84137059                        |
| Idioma de la placa del motor:        | GB                              |



93036229 NKE 125-315/336 AA2F2AESBQQESW3 50 Hz



Nota: todas las unidades están en [mm] a menos que se indiquen otras. Exención de responsabilidad: este esquema dimensional simplificado no muestra todos los detalles.



## **2.3.- FANCOILS**



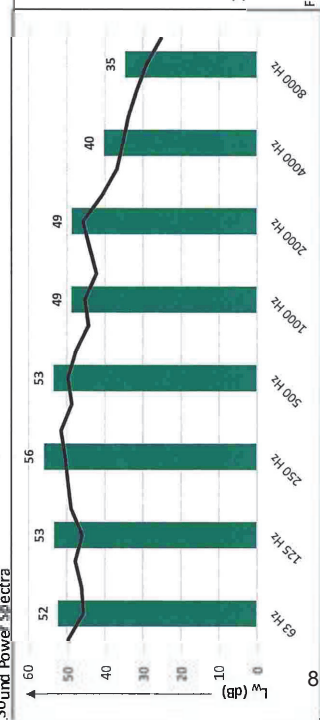
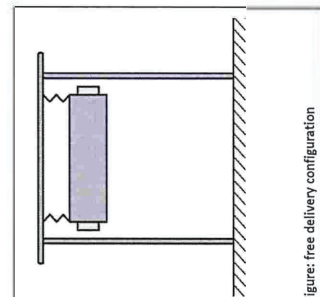
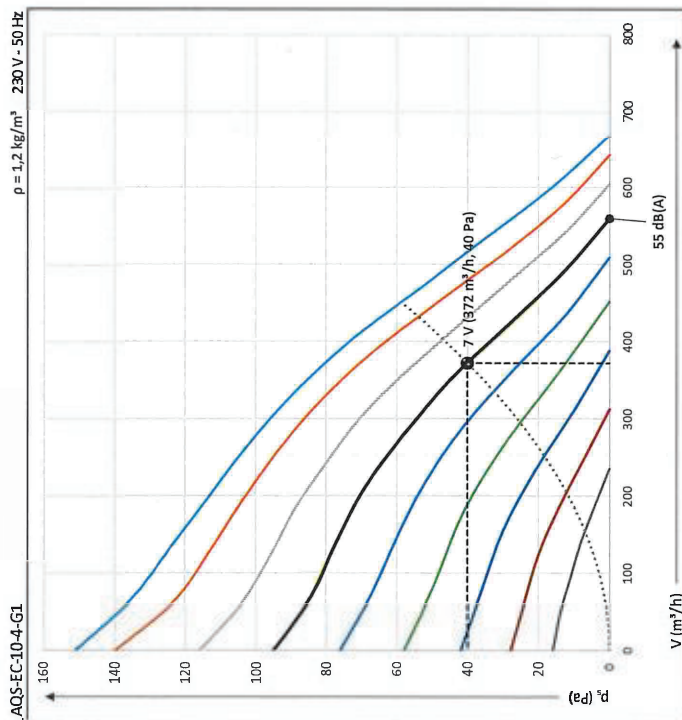


Altitude (m) = 667

Variable  
●  $v(V)$   
○  $tw_1$  (°C)  
○  $Vw$  (l/h)

Variable 2  
●  $v(V) = 7,0$   
○  $V (m^3/h) =$

Variable 1  
●  $p_s (Pa) = 40$



L<sub>w</sub> values have been measured for free delivery configuration with G1 filter according ISO 3744 and UNE-EN 16583.

| Heating |            | $t_{w1}$ (°C) = 60 |            | $tw_2$ (°C) = 45 |            | $t_a$ (°C) = 22 |               | $HR$ (%) = 50 |                  |
|---------|------------|--------------------|------------|------------------|------------|-----------------|---------------|---------------|------------------|
| $v$ (V) | $V$ (m³/h) | $p_s$ (Pa)         | $Q_t$ (kW) | $Q_r$ (kW)       | $Vw$ (l/h) | $Pa_{w1}$ (kPa) | $t_{a2}$ (°C) | $HR_2$ (%)    | $L_{wa}$ (dB(A)) |
| 7,0     | 372        | 40                 | 1,15       | 1,16             | 67         | 1,2             | 32,1          | 28            | 55               |
| 10      | 451        | 59                 | 1,25       | 1,37             | 73         | 1,3             | 31,0          | 30            | 60               |
| 9       | 433        | 54                 | 1,23       | 1,32             | 72         | 1,3             | 31,2          | 29            | 59               |
| 8       | 404        | 47                 | 1,19       | 1,32             | 70         | 1,2             | 31,6          | 29            | 58               |
| 7       | 372        | 40                 | 1,15       | 1,32             | 67         | 1,2             | 32,1          | 28            | 55               |
| 6       | 336        | 33                 | 1,10       | 1,24             | 64         | 1,1             | 32,7          | 27            | 53               |
| 5       | 296        | 25                 | 1,04       | 1,16             | 61         | 1,0             | 33,4          | 26            | 50               |
| 4       | 253        | 18                 | 0,96       | 1,06             | 56         | 0,9             | 34,4          | 25            | 46               |
| 3       | 204        | 12                 | 0,86       | 0,95             | 50         | 0,7             | 35,8          | 23            | 41               |
| 2       | 153        | 7                  | 0,74       | 0,87             | 43         | 0,5             | 37,8          | 21            | 35               |

\* At free delivery point (see diagram) and G1 filter

| Cooling |            | $t_{w1}$ (°C) = 10 |            | $tw_2$ (°C) = 15 |            | $t_a$ (°C) = 25 |               | $HR$ (%) = 47 |                  |
|---------|------------|--------------------|------------|------------------|------------|-----------------|---------------|---------------|------------------|
| $v$ (V) | $V$ (m³/h) | $p_s$ (Pa)         | $Q_t$ (kW) | $Q_r$ (kW)       | $Vw$ (l/h) | $Pa_{w1}$ (kPa) | $t_{a2}$ (°C) | $HR_2$ (%)    | $L_{wa}$ (dB(A)) |
| 7,0     | 372        | 40                 | 1,16       | 1,16             | 199        | 5,9             | 14,7          | 90            | 55               |
| 10      | 451        | 59                 | 1,37       | 1,37             | 234        | 7,9             | 15,0          | 89            | 60               |
| 9       | 433        | 54                 | 1,32       | 1,32             | 226        | 7,4             | 15,0          | 89            | 59               |
| 8       | 404        | 47                 | 1,24       | 1,24             | 213        | 6,7             | 14,9          | 90            | 58               |
| 7       | 372        | 40                 | 1,16       | 1,16             | 199        | 5,9             | 14,7          | 90            | 55               |
| 6       | 336        | 33                 | 1,06       | 1,06             | 182        | 5,1             | 14,6          | 91            | 53               |
| 5       | 296        | 25                 | 0,95       | 0,95             | 163        | 4,2             | 14,4          | 92            | 50               |
| 4       | 253        | 18                 | 0,82       | 0,82             | 141        | 3,3             | 14,3          | 93            | 46               |
| 3       | 204        | 12                 | 0,67       | 0,67             | 115        | 2,3             | 14,1          | 94            | 41               |
| 2       | 153        | 7                  | 0,51       | 0,51             | 87         | 1,4             | 14,1          | 94            | 35               |

\* At free delivery point (see diagram) and G1 filter

\*\* Laminar water flow. Performance may differ ±10%.

Legend

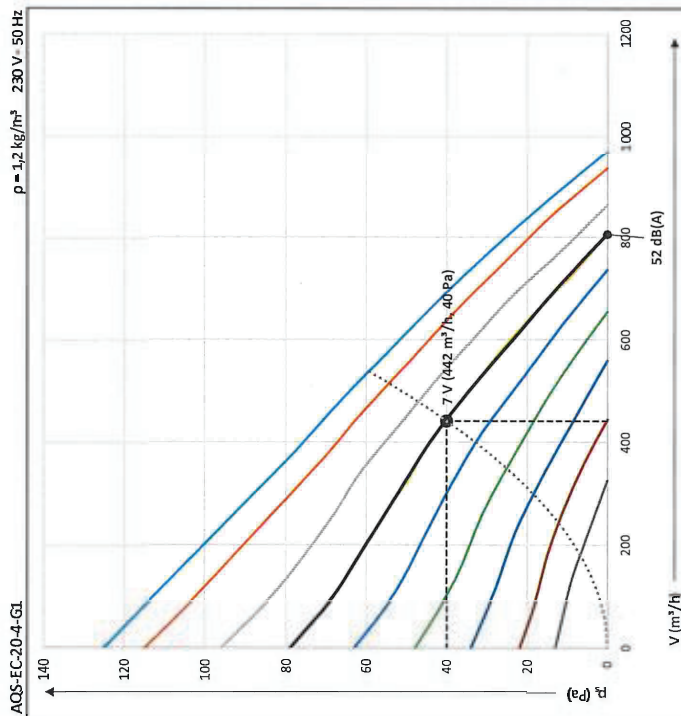
|                 |       |                                 |
|-----------------|-------|---------------------------------|
| V               | m³/h  | Volumetric flow                 |
| P <sub>s</sub>  | Pa    | Fan static pressure             |
| v               | V     | Fan speed                       |
| Q               | KW    | Heating capacity                |
| Q <sub>r</sub>  | KW    | Total capacity                  |
| Q <sub>s</sub>  | KW    | Sensible capacity               |
| V <sub>w</sub>  | l/h   | Water volumetric flow           |
| Pa <sub>w</sub> | Pa    | Water-side pressure drop        |
| t <sub>w1</sub> | °C    | Inlet water temperature         |
| t <sub>w2</sub> | °C    | Outlet water temperature        |
| t <sub>a</sub>  | °C    | Dry-bulb room temperature       |
| t <sub>a2</sub> | °C    | Dry-bulb outlet air temperature |
| H <sub>r</sub>  | %     | Room relative humidity          |
| H <sub>a2</sub> | %     | Outlet air relative humidity    |
| L <sub>wa</sub> | dB(A) | A-weighted sound power level    |
| L <sub>w</sub>  | dB    | Sound power level               |



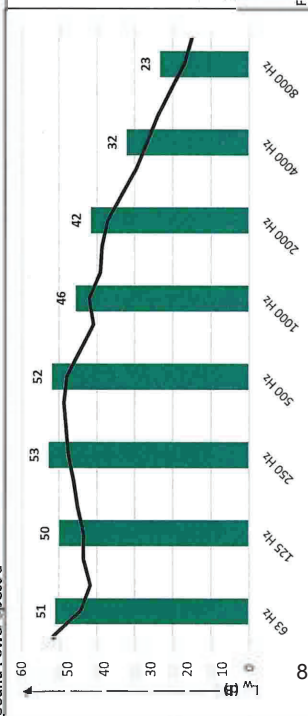


Altitude (m) = 667

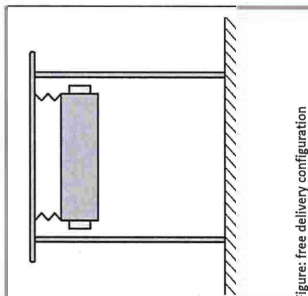
Variable 1  
●  $t_{w1}$  (°C)  
○  $V_w$  (l/h)



Sound Power Spectra



$L_w$  data have been measured for free delivery configuration with G1 filter according ISO 3744 and UNE-EN 16583.



| Heating |            | $t_{w1}$ (°C) = 60 |          | $t_{w2}$ (°C) = 45 |                | $t_a$ (°C) = 22 |                     | HR (%) = 50      |  |
|---------|------------|--------------------|----------|--------------------|----------------|-----------------|---------------------|------------------|--|
| $v$ (V) | $V$ (m³/h) | $P_s$ (Pa)         | $Q$ (kW) | $V_w$ (l/h)        | $P_{w2}$ (kPa) | $t_{a2}$ (°C)   | HR <sub>2</sub> (%) | $L_{wa}$ (dB(A)) |  |
| 7,0     | 442        | 40                 | 1,57     | 92                 | 2,3            | 33,6            | 26                  | 52               |  |
| 10      | 538        | 59                 | 1,72     | 100                | 2,7            | 32,4            | 28                  | 57               |  |
| 9       | 516        | 54                 | 1,68     | 98                 | 2,6            | 32,6            | 27                  | 56               |  |
| 8       | 480        | 47                 | 1,63     | 95                 | 2,5            | 33,1            | 27                  | 54               |  |
| 7       | 442        | 40                 | 1,57     | 92                 | 2,3            | 33,6            | 26                  | 52               |  |
| 6       | 399        | 33                 | 1,50     | 87                 | 2,2            | 34,2            | 25                  | 50               |  |
| 5       | 352        | 25                 | 1,41     | 82                 | 1,9            | 35,0            | 24                  | 46               |  |
| 4       | 300        | 18                 | 1,30     | 76                 | 1,7            | 36,1            | 22                  | 42               |  |
| 3       | 242        | 12                 | 1,17     | 68                 | 1,4            | 37,7            | 21                  | 37               |  |
| 2       | 182        | 7                  | 1,00     | 58                 | 1,0            | 39,9            | 18                  | 29               |  |

\* At free delivery point (see diagram) and G1 filter

| Cooling |                         | $t_{w1}$ (°C) = 10 |            | $t_{w2}$ (°C) = 15 |             | $t_r$ (°C) = 25 |               | $HR$ (%) = 47 |                    |
|---------|-------------------------|--------------------|------------|--------------------|-------------|-----------------|---------------|---------------|--------------------|
| $v$ (V) | $V$ (m <sup>3</sup> /h) | $p_s$ (Pa)         | $Q_c$ (kW) | $Q_a$ (kW)         | $V_w$ (l/h) | $P_{aW}$ (kPa)  | $t_{c2}$ (°C) | $HR_2$ (%)    | $L_{wa}$ * (dB(A)) |
| 7,0     | 442                     | 40                 | 1,38       | 1,38               | 236         | 3,0             | 14,7          | 90            | 52                 |
| 7       | 538                     | 59                 | 1,64       | 1,64               | 281         | 4,1             | 15,0          | 89            | 57                 |
| 10      | 516                     | 54                 | 1,58       | 1,58               | 270         | 3,8             | 14,9          | 89            | 56                 |
| 9       | 480                     | 47                 | 1,48       | 1,48               | 254         | 3,4             | 14,8          | 90            | 54                 |
| 8       | 442                     | 40                 | 1,38       | 1,38               | 236         | 3,0             | 14,7          | 90            | 52                 |
| 7       | 399                     | 33                 | 1,26       | 1,26               | 215         | 2,5             | 14,6          | 91            | 50                 |
| 6       | 352                     | 25                 | 1,12       | 1,12               | 192         | 2,1             | 14,5          | 92            | 46                 |
| 5       | 300                     | 18                 | 0,96       | 0,96               | 165         | 1,6             | 14,5          | 92            | 42                 |
| 4       | 242                     | 12                 | 0,78       | 0,78               | 134         | 1,1             | 14,4          | 92            | 37                 |
| 3       | 182                     | 7                  | 0,58       | 0,58               | 100         | 0,7             | 14,5          | 92            | 29                 |

\* At free delivery point (see diagram) and G1 filter

\*\* Laminar water flow. Performance may differ  $\pm 10\%$ .

Legend

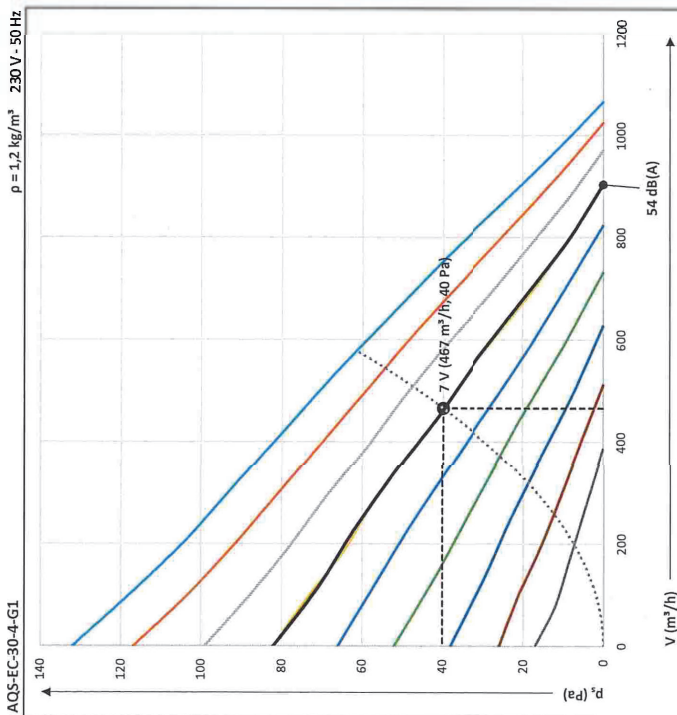
|          |       |                                 |
|----------|-------|---------------------------------|
| $V$      | m³/h  | Volumetric flow                 |
| $P_a$    | Pa    | Fan static pressure             |
| $V$      | l/h   | Fan speed                       |
| $Q$      | kW    | Heating capacity                |
| $Q_r$    | kW    | Total capacity                  |
| $Q_s$    | kW    | Sensible capacity               |
| $V_w$    | l/h   | Water volumetric flow           |
| $P_{aW}$ | Pa    | Water-side pressure drop        |
| $t_{w1}$ | °C    | Inlet water temperature         |
| $t_{w2}$ | °C    | Outlet water temperature        |
| $t_a$    | °C    | Dry-bulb room temperature       |
| $t_{a2}$ | °C    | Dry-bulb outlet air temperature |
| $H_R$    | %     | Room relative humidity          |
| $H_{R2}$ | %     | Outlet air relative humidity    |
| $L_{wa}$ | dB(A) | A-weighted sound power level    |
| $L_w$    | dB    | Sound power level               |





Altitude (m) = 667

Variable  
●  $t_{w1}$  (°C)  
○  $t_{w2}$  (°C)  
○  $V_w$  (l/h)



| Heating |            | $t_{w1}$ (°C) = 60 | $t_{w2}$ (°C) = 45 | $t_a$ (°C) = 22 | $t_{a2}$ (°C)  | $HR_2$ (%)       | $HR$ (%) = 50    |
|---------|------------|--------------------|--------------------|-----------------|----------------|------------------|------------------|
| $v$ (V) | $V$ (m³/h) | $P_s$ (Pa)         | $Q_r$ (kW)         | $V_w$ (l/h)     | $P_{fa}$ (kPa) | $L_{wa}$ (dB(A)) | $L_{wa}$ (dB(A)) |
| 7,0     | 467        | 40                 | 1,85               | 108             | 0,7            | 24               | 54               |
| 10      | 579        | 61                 | 2,05               | 120             | 0,9            | 26               | 58               |
| 9       | 545        | 55                 | 1,99               | 116             | 0,8            | 25               | 57               |
| 8       | 508        | 47                 | 1,93               | 112             | 0,8            | 25               | 56               |
| 7       | 467        | 40                 | 1,85               | 108             | 0,7            | 24               | 54               |
| 6       | 422        | 33                 | 1,75               | 102             | 0,7            | 23               | 51               |
| 5       | 373        | 25                 | 1,64               | 96              | 0,6            | 22               | 47               |
| 4       | 319        | 19                 | 1,51               | 88              | 0,5            | 21               | 43               |
| 3       | 262        | 13                 | 1,35               | 79              | 0,4            | 19               | 37               |
| 2       | 202        | 7                  | 1,16               | 67              | 0,3            | 18               | 31               |

\* At free delivery point (see diagram) and G1 filter

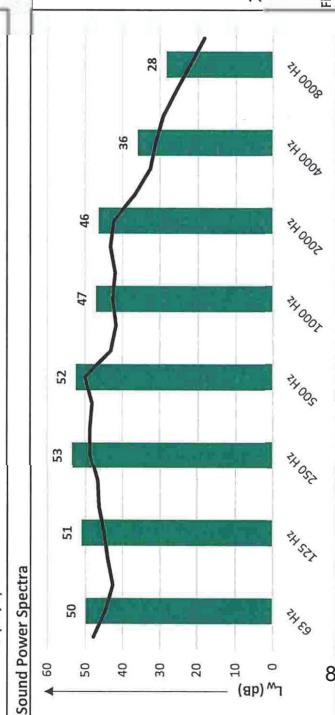
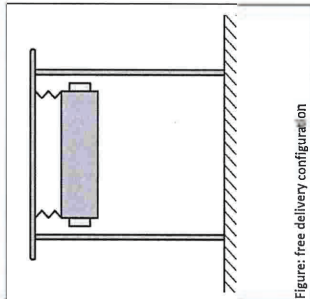
| Cooling |            | $t_{w1}$ (°C) = 10 | $t_{w2}$ (°C) = 15 | $t_a$ (°C) = 25 | $t_{a2}$ (°C)  | $HR_2$ (%)       | $HR$ (%) = 47    |
|---------|------------|--------------------|--------------------|-----------------|----------------|------------------|------------------|
| $v$ (V) | $V$ (m³/h) | $P_s$ (Pa)         | $Q_r$ (kW)         | $V_w$ (l/h)     | $P_{fa}$ (kPa) | $L_{wa}$ (dB(A)) | $L_{wa}$ (dB(A)) |
| 7,0     | 467        | 40                 | 1,59               | 272             | 5,0            | 96               | 54               |
| 10      | 579        | 61                 | 1,93               | 330             | 7,0            | 95               | 58               |
| 9       | 545        | 55                 | 1,83               | 313             | 6,4            | 95               | 57               |
| 8       | 508        | 47                 | 1,72               | 294             | 5,7            | 96               | 56               |
| 7       | 467        | 40                 | 1,59               | 272             | 5,0            | 96               | 54               |
| 6       | 422        | 33                 | 1,45               | 248             | 4,2            | 97               | 51               |
| 5       | 373        | 25                 | 1,29               | 221             | 3,5            | 97               | 47               |
| 4       | 319        | 19                 | 1,11               | 191             | 2,7            | 98               | 43               |
| 3       | 262        | 13                 | 0,92               | 158             | 1,9            | 98               | 37               |
| 2       | 202        | 7                  | 0,70               | 121             | 1,2            | 98               | 31               |

\* At free delivery point (see diagram) and G1 filter

\*\* Laminar water flow. Performance may differ ±10%.

#### Legend

|          |                                 |
|----------|---------------------------------|
| $V$      | Volumetric flow                 |
| $P_s$    | Fan static pressure             |
| $v$      | Fan speed                       |
| $Q_r$    | Heating capacity                |
| $Q_s$    | Total capacity                  |
| $V_w$    | Sensible capacity               |
| $P_{fa}$ | Water volumetric flow           |
| $t_{w1}$ | Water-side pressure drop        |
| $t_{w2}$ | Inlet water temperature         |
| $t_a$    | Outlet water temperature        |
| $t_{a2}$ | Dry-bulb room temperature       |
| $H_{r1}$ | Dry-bulb outlet air temperature |
| $H_{r2}$ | Room relative humidity          |
| $L_{wa}$ | Outlet air relative humidity    |
| $L_w$    | A-weighted sound power level    |
|          | Sound power level               |



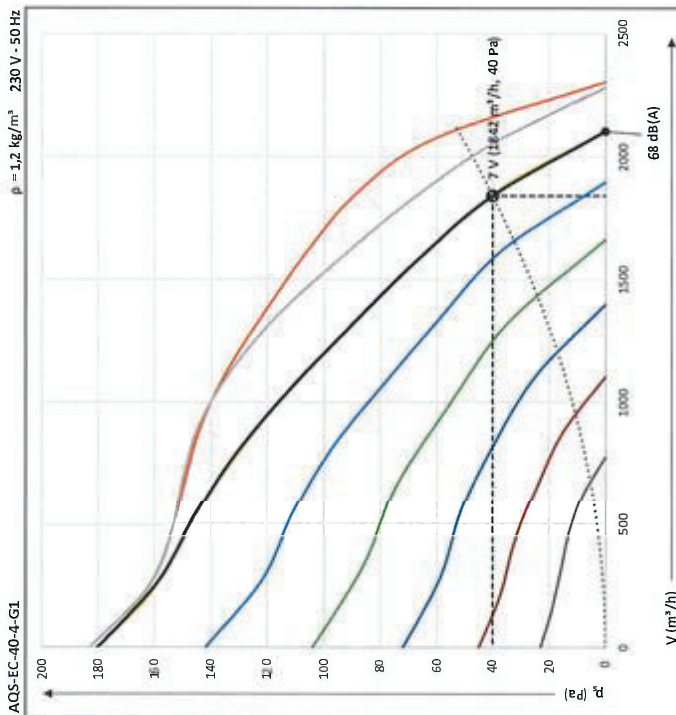
$L_w$  data have been measured for free delivery configuration with G1 filter according ISO 3744 and UNE-EN 16583.



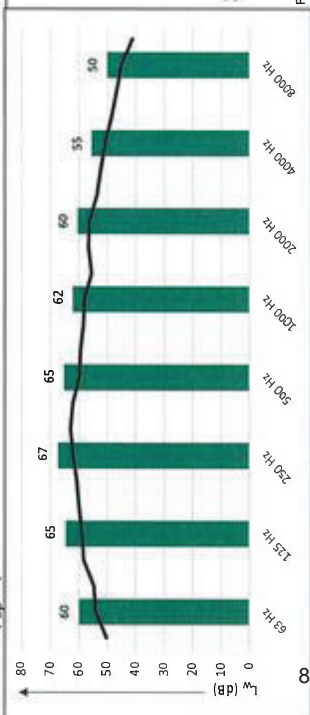


Altitude (m) = 667

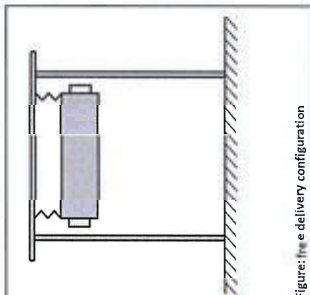
Variable  
●  $t_{w1}$  (°C)  
○  $V_w$  (l/h)



Sound Power Spectra



$L_w$  data have been measured for free delivery configuration with G1 filter according ISO 3744 and UNE-EN 16583.



| Heating |          |               |               |               |        |             |                |               |        |
|---------|----------|---------------|---------------|---------------|--------|-------------|----------------|---------------|--------|
| v (V)   | V (m³/h) | $P_{st}$ (Pa) | $t_{w1}$ (°C) | $t_{w2}$ (°C) | Q (kW) | $V_w$ (l/h) | $P_{aw}$ (kPa) | $t_{a2}$ (°C) | HR (%) |
| 7,0     | 1842     | 40            | 40            | 3,58          | 3,58   | 209         | 2,4            | 28,3          | 35     |
| 10      | 2120     | 53            | 53            | 3,76          | 3,76   | 220         | 2,7            | 27,8          | 36     |
| 9       | 2120     | 53            | 53            | 3,76          | 3,76   | 220         | 2,7            | 27,8          | 36     |
| 8       | 2003     | 47            | 47            | 3,69          | 3,69   | 215         | 2,6            | 28,0          | 35     |
| 7       | 1842     | 40            | 40            | 3,58          | 3,58   | 209         | 2,4            | 28,3          | 35     |
| 6       | 1658     | 32            | 32            | 3,44          | 3,44   | 201         | 2,3            | 28,8          | 34     |
| 5       | 1449     | 25            | 25            | 3,27          | 3,27   | 191         | 2,1            | 29,3          | 33     |
| 4       | 1216     | 17            | 17            | 3,05          | 3,05   | 178         | 1,8            | 30,2          | 31     |
| 3       | 957      | 11            | 11            | 2,76          | 2,76   | 161         | 1,5            | 31,4          | 29     |
| 2       | 673      | 5             | 5             | 2,37          | 2,37   | 138         | 1,2            | 33,4          | 26     |

\* At free delivery point (see diagram) and G1 filter

| Cooling |          |               |               |               |                     |             |                |               |        |
|---------|----------|---------------|---------------|---------------|---------------------|-------------|----------------|---------------|--------|
| v (V)   | V (m³/h) | $P_{st}$ (Pa) | $t_{w1}$ (°C) | $t_{w2}$ (°C) | Q <sub>c</sub> (kW) | $V_w$ (l/h) | $P_{aw}$ (kPa) | $t_{a2}$ (°C) | HR (%) |
| 7,0     | 1842     | 40            | 40            | 4,66          | 4,66                | 799         | 5,6            | 16,7          | 80     |
| 10      | 2120     | 53            | 53            | 5,20          | 5,20                | 890         | 6,8            | 16,9          | 79     |
| 9       | 2120     | 53            | 53            | 5,20          | 5,20                | 890         | 6,8            | 16,9          | 79     |
| 8       | 2003     | 47            | 47            | 4,98          | 4,98                | 853         | 6,3            | 16,8          | 79     |
| 7       | 1842     | 40            | 40            | 4,66          | 4,66                | 799         | 5,6            | 16,7          | 80     |
| 6       | 1658     | 32            | 32            | 4,29          | 4,29                | 736         | 4,8            | 16,5          | 81     |
| 5       | 1449     | 25            | 25            | 3,85          | 3,85                | 660         | 4,0            | 16,3          | 82     |
| 4       | 1216     | 17            | 17            | 3,32          | 3,32                | 569         | 3,1            | 16,0          | 83     |
| 3       | 957      | 11            | 11            | 2,69          | 2,69                | 461         | 2,1            | 15,7          | 85     |
| 2       | 673      | 5             | 5             | 1,93          | 1,93                | 332         | 1,2            | 15,5          | 86     |

\* At free delivery point (see diagram) and G1 filter

\*\* Laminar water flow. Performance may differ ±10%.

Legend

|                |       |                                 |
|----------------|-------|---------------------------------|
| V              | m³/h  | Volumetric flow                 |
| $P_{st}$       | Pa    | Fan static pressure             |
| V              | V     | Fan speed                       |
| Q              | kW    | Heating capacity                |
| Q <sub>c</sub> | kW    | Total capacity                  |
| Q <sub>s</sub> | kW    | Sensible capacity               |
| $V_w$          | l/h   | Water volumetric flow           |
| $P_{aw}$       | Pa    | Water-side pressure drop        |
| $t_{w1}$       | °C    | Inlet water temperature         |
| $t_{w2}$       | °C    | Outlet water temperature        |
| $t_{a2}$       | °C    | Dry-bulb room temperature       |
| $t_{a2}$       | °C    | Dry-bulb outlet air temperature |
| HR             | %     | Room relative humidity          |
| HR             | %     | Outlet air relative humidity    |
| $L_{wa}$       | dB(A) | A-weighted sound power level    |
| $L_w$          | dB    | Sound power level               |







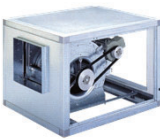
## **2.4.- VENTILADORES**





CVTT

CVTT-10/10-0.37KW-850RPM/4-IE2 SANDWICH



Caja de ventilación construída en chapa de acero galvanizado y aislamiento termoacústico de melamina, equipada con ventilador centrífugo de álabes adelante montado sobre soportes antivibratorios y junta flexible a la descarga, accionado por motor a transmisión trifásico IP55, marca S&P modelo CVTT-10/10-0.37kW-850rpm/4-IE2 SANDWICH para un caudal 813 l/s y presión estática 165 Pa.

Punto requerido

|                  |                         |
|------------------|-------------------------|
| Caudal           | 776 l/s                 |
| Presión Estática | 150 Pa                  |
| Temperatura      | 20 °C                   |
| Altitud          | 0 m                     |
| Densidad         | 1,2 Kg / m <sup>3</sup> |
| Frecuencia       | 60 Hz                   |

Punto de trabajo

|                        |            |
|------------------------|------------|
| Caudal                 | 813 l/s    |
| Presión estática       | 165 Pa     |
| Presión dinámica       | 42,8 Pa    |
| Presión total          | 207 Pa     |
| Eficiencia             | 51         |
| Potencia útil          | 0,330 kW   |
| Factor de Servicio Req | 10         |
| Velocidad descarga     | 8,4 m/s    |
| Velocidad ventilador   | 850 rpm    |
| Potencia específica    | 0,51 W/l/s |

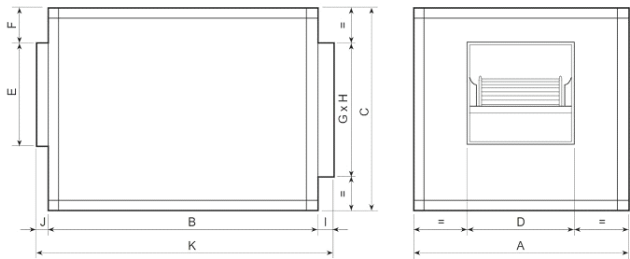
Construcción

|                    |          |
|--------------------|----------|
| Tamaño ventilador  | 10/10    |
| Diámetro impulsión | 273 mm   |
| Peso               | 74,00 kg |

Características del motor

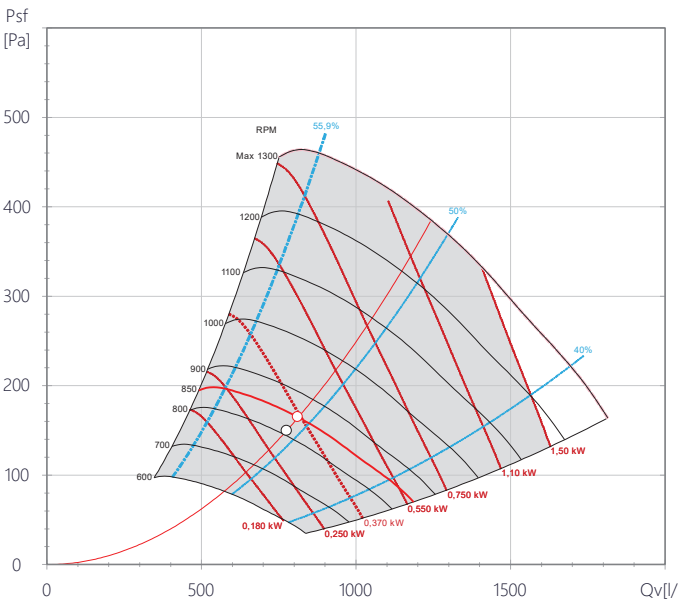
|                             |                 |
|-----------------------------|-----------------|
| Número de Polos             | 4               |
| Potencia motor              | 0,37 kW         |
| Velocidad motor             | 1680 rpm        |
| Tensión                     | 3-230/400V-60Hz |
| Intensidad máxima absorbida | 1,8 A / 1,0 A   |
| Índice de protección        | IP55            |
| Clase motor                 | F               |
| Intensidad Arranque         | 8,2 A           |

Dimensiones



| A   | B   | C   | D   | E   | F  | G   | H   | I  |
|-----|-----|-----|-----|-----|----|-----|-----|----|
| 710 | 850 | 605 | 333 | 289 | 94 | 450 | 450 | 40 |
| J   | K   |     |     |     |    |     |     |    |
| 30  | 920 |     |     |     |    |     |     |    |

Curva



Características acústicas

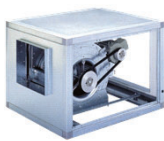
|                       | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Total |
|-----------------------|----|-----|-----|-----|----|----|----|----|-------|
| Aspiración (LwA)      | 52 | 54  | 58  | 58  | 65 | 64 | 58 | 49 | 69    |
| Aspiración LpA @ 1,5m | 37 | 39  | 43  | 43  | 50 | 50 | 43 | 34 | 55    |
| Descarga (LwA)        | 60 | 62  | 66  | 66  | 73 | 72 | 66 | 57 | 77    |
| Descarga LpA @ 1,5m   | 45 | 47  | 51  | 51  | 58 | 58 | 51 | 42 | 63    |





## CVTT

CVTT-25/25-7.5KW-550RPM/4-IE3 SANDWICH



Caja de ventilación construida en chapa de acero galvanizado y aislamiento termoacústico de melamina, equipada con ventilador centrífugo de álabes adelante montado sobre soportes antivibratorios y junta flexible a la descarga, accionado por motor a transmisión trifásico IP55. Modelo con panel de doble pared, tipo sándwich, y aislamiento acústico ininflamable (M0) de fibra de vidrio de 17mm de espesor. Disponible bajo demanda. Marca S&P modelo CVTT-25/25-7.5kW-550rpm/4-IE3 SANDWICH para un caudal 8.489 l/s y presión estática 177 Pa.

### Punto requerido

|                  |                          |
|------------------|--------------------------|
| Caudal           | 8.550 l/s                |
| Presión Estática | 180 Pa                   |
| Temperatura      | 20 °C                    |
| Altitud          | 670 m                    |
| Densidad         | 1,12 Kg / m <sup>3</sup> |
| Frecuencia       | 50 Hz                    |

### Punto de trabajo

|                        |                                  |
|------------------------|----------------------------------|
| Caudal                 | 8.489 l/s                        |
| Presión estática       | 177 Pa @ 1,12 kg/m <sup>3</sup>  |
| Presión dinámica       | 98 Pa @ 1,12 kg/m <sup>3</sup>   |
| Presión total          | 276 Pa @ 1,12 kg/m <sup>3</sup>  |
| Eficiencia             | 39                               |
| Potencia útil          | 6,06 kW @ 1,12 kg/m <sup>3</sup> |
| Factor de Servicio Req | 10                               |
| Velocidad descarga     | 13,3 m/s                         |
| Velocidad ventilador   | 550 rpm                          |
| Potencia específica    | 0,87 W/l/s                       |

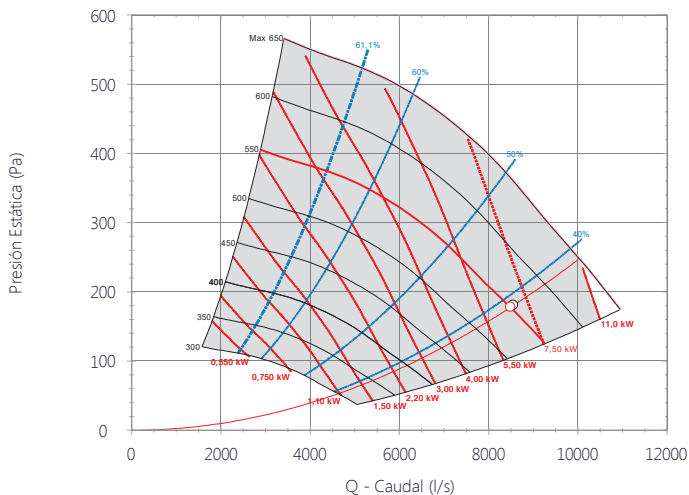
### Construcción

|                    |           |
|--------------------|-----------|
| Tamaño ventilador  | 25/25     |
| Diámetro impulsión | 655 mm    |
| Peso               | 428,00 kg |

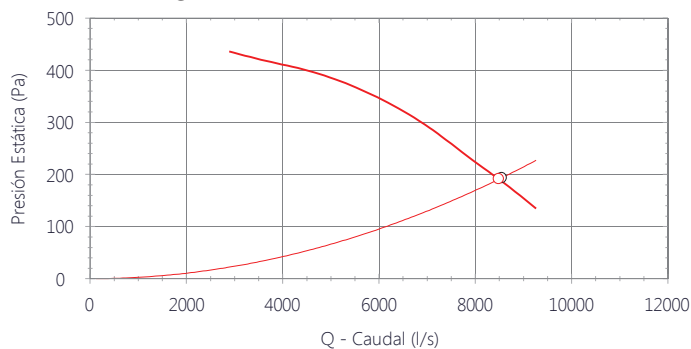
### Características del motor

|                             |                 |
|-----------------------------|-----------------|
| Número de Polos             | 4               |
| Potencia motor              | 7,5 kW          |
| Velocidad motor             | 1465 rpm        |
| Tensión                     | 3-400/690V-50Hz |
| Intensidad máxima absorbida | 14,2 A / 8,2 A  |
| Índice de protección        | IP55            |
| Clase motor                 | F               |
| Intensidad Arranque         | 120,7 A         |

### Curva



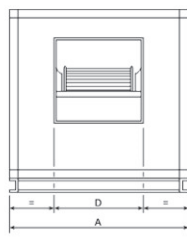
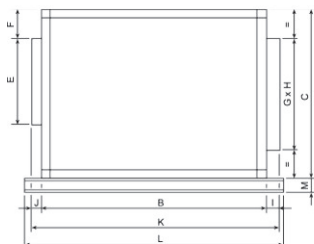
### Curva (1,204 Kg / m<sup>3</sup>)



### Características acústicas

|                       | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Total |
|-----------------------|----|-----|-----|-----|----|----|----|----|-------|
| Aspiración (LwA)      | 69 | 67  | 71  | 70  | 72 | 70 | 70 | 53 | 79    |
| Aspiración LpA @ 1,5m | 54 | 52  | 56  | 55  | 57 | 56 | 55 | 38 | 64    |
| Descarga (LwA)        | 77 | 75  | 79  | 78  | 80 | 78 | 78 | 61 | 87    |
| Descarga LpA @ 1,5m   | 62 | 60  | 64  | 63  | 65 | 64 | 63 | 46 | 72    |

### Dimensiones

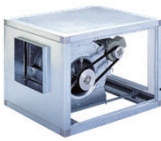






## CVTT

CVTT-10/10-0.37KW-850RPM/4-IE2 SANDWICH



Caja de ventilación construída en chapa de acero galvanizado y aislamiento termoacústico de melamina, equipada con ventilador centrífugo de álabes adelante montado sobre soportes antivibratorios y junta flexible a la descarga, accionado por motor a transmisión trifásico IP55, marca S&P modelo CVTT-10/10-0.37kW-850rpm/4-IE2 SANDWICH para un caudal 762 l/s y presión estática 174 Pa.

### Punto requerido

|                  |                         |
|------------------|-------------------------|
| Caudal           | 776 l/s                 |
| Presión Estática | 180 Pa                  |
| Temperatura      | 20 °C                   |
| Altitud          | 0 m                     |
| Densidad         | 1,2 Kg / m <sup>3</sup> |
| Frecuencia       | 60 Hz                   |

### Punto de trabajo

|                        |            |
|------------------------|------------|
| Caudal                 | 762 l/s    |
| Presión estática       | 174 Pa     |
| Presión dinámica       | 37,6 Pa    |
| Presión total          | 211 Pa     |
| Eficiencia             | 53         |
| Potencia útil          | 0,305 kW   |
| Factor de Servicio Req | 10         |
| Velocidad descarga     | 7,9 m/s    |
| Velocidad ventilador   | 850 rpm    |
| Potencia específica    | 0,51 W/l/s |

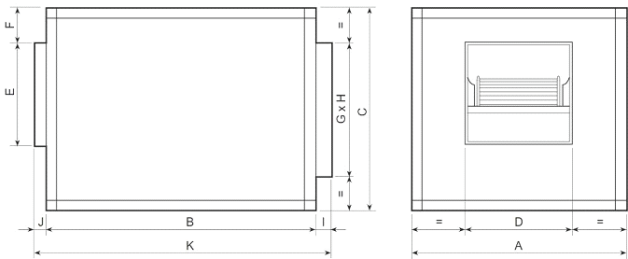
### Construcción

|                    |          |
|--------------------|----------|
| Tamaño ventilador  | 10/10    |
| Diámetro impulsión | 273 mm   |
| Peso               | 74,00 kg |

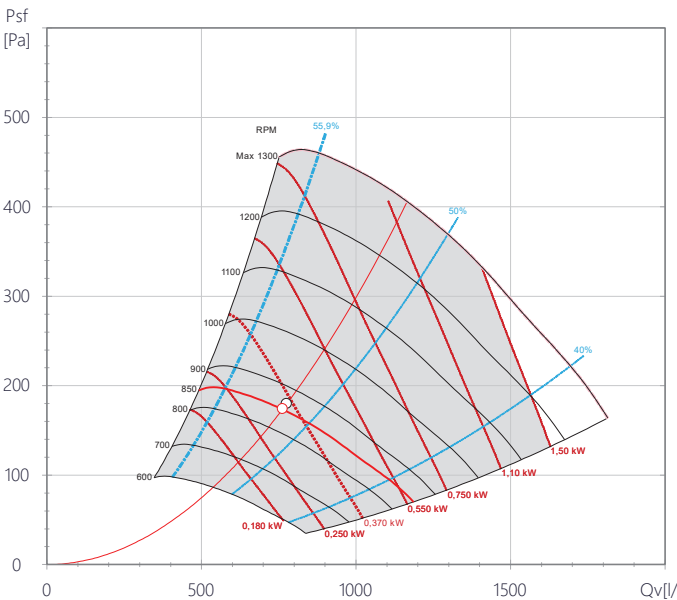
### Características del motor

|                             |                 |
|-----------------------------|-----------------|
| Número de Polos             | 4               |
| Potencia motor              | 0,37 kW         |
| Velocidad motor             | 1680 rpm        |
| Tensión                     | 3-230/400V-60Hz |
| Intensidad máxima absorbida | 1,8 A / 1,0 A   |
| Índice de protección        | IP55            |
| Clase motor                 | F               |
| Intensidad Arranque         | 8,2 A           |

### Dimensiones



### Curva



### Características acústicas

|                       | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Total |
|-----------------------|----|-----|-----|-----|----|----|----|----|-------|
| Aspiración (LwA)      | 51 | 53  | 57  | 57  | 64 | 64 | 57 | 48 | 68    |
| Aspiración LpA @ 1,5m | 36 | 38  | 42  | 42  | 49 | 49 | 42 | 33 | 54    |
| Descarga (LwA)        | 59 | 61  | 65  | 65  | 72 | 72 | 65 | 56 | 76    |
| Descarga LpA @ 1,5m   | 44 | 46  | 50  | 50  | 57 | 57 | 50 | 41 | 62    |

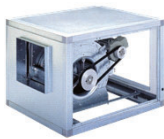
| A   | B   | C   | D   | E   | F  | G   | H   | I  |
|-----|-----|-----|-----|-----|----|-----|-----|----|
| 710 | 850 | 605 | 333 | 289 | 94 | 450 | 450 | 40 |
| J   | K   |     |     |     |    |     |     |    |
| 30  | 920 |     |     |     |    |     |     |    |





## CVTT

CVTT-25/25-7.5KW-550RPM/4-IE3 SANDWICH



Caja de ventilación construida en chapa de acero galvanizado y aislamiento termoacústico de melamina, equipada con ventilador centrífugo de álabes adelante montado sobre soportes antivibratorios y junta flexible a la descarga, accionado por motor a transmisión trifásico IP55. Modelo con panel de doble pared, tipo sándwich, y aislamiento acústico ininflamable (M0) de fibra de vidrio de 17mm de espesor. Disponible bajo demanda. Marca S&P modelo CVTT-25/25-7.5kW-550rpm/4-IE3 SANDWICH para un caudal 8.489 l/s y presión estática 177 Pa.

### Punto requerido

|                  |                          |
|------------------|--------------------------|
| Caudal           | 8.550 l/s                |
| Presión Estática | 180 Pa                   |
| Temperatura      | 20 °C                    |
| Altitud          | 670 m                    |
| Densidad         | 1,12 Kg / m <sup>3</sup> |
| Frecuencia       | 50 Hz                    |

### Punto de trabajo

|                        |                                  |
|------------------------|----------------------------------|
| Caudal                 | 8.489 l/s                        |
| Presión estática       | 177 Pa @ 1,12 kg/m <sup>3</sup>  |
| Presión dinámica       | 98 Pa @ 1,12 kg/m <sup>3</sup>   |
| Presión total          | 276 Pa @ 1,12 kg/m <sup>3</sup>  |
| Eficiencia             | 39                               |
| Potencia útil          | 6,06 kW @ 1,12 kg/m <sup>3</sup> |
| Factor de Servicio Req | 10                               |
| Velocidad descarga     | 13,3 m/s                         |
| Velocidad ventilador   | 550 rpm                          |
| Potencia específica    | 0,87 W/l/s                       |

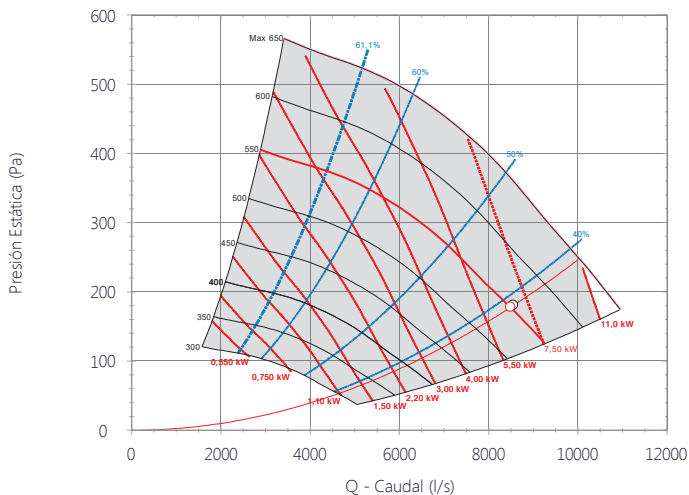
### Construcción

|                    |           |
|--------------------|-----------|
| Tamaño ventilador  | 25/25     |
| Diámetro impulsión | 655 mm    |
| Peso               | 428,00 kg |

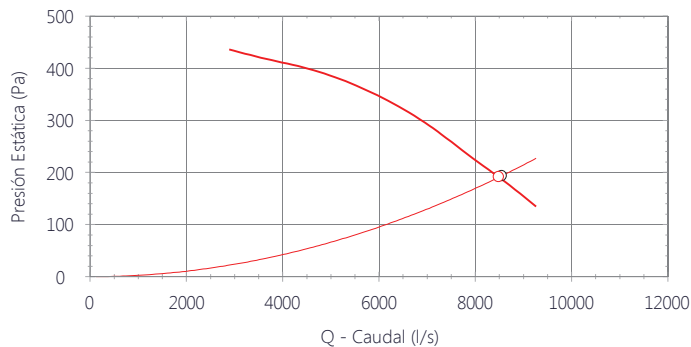
### Características del motor

|                             |                 |
|-----------------------------|-----------------|
| Número de Polos             | 4               |
| Potencia motor              | 7,5 kW          |
| Velocidad motor             | 1465 rpm        |
| Tensión                     | 3-400/690V-50Hz |
| Intensidad máxima absorbida | 14,2 A / 8,2 A  |
| Índice de protección        | IP55            |
| Clase motor                 | F               |
| Intensidad Arranque         | 120,7 A         |

### Curva



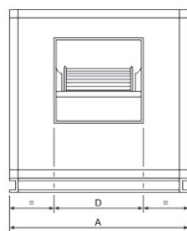
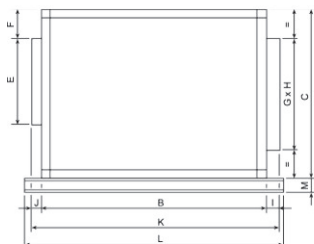
### Curva (1,204 Kg / m<sup>3</sup>)



### Características acústicas

|                       | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Total |
|-----------------------|----|-----|-----|-----|----|----|----|----|-------|
| Aspiración (LwA)      | 69 | 67  | 71  | 70  | 72 | 70 | 70 | 53 | 79    |
| Aspiración LpA @ 1,5m | 54 | 52  | 56  | 55  | 57 | 56 | 55 | 38 | 64    |
| Descarga (LwA)        | 77 | 75  | 79  | 78  | 80 | 78 | 78 | 61 | 87    |
| Descarga LpA @ 1,5m   | 62 | 60  | 64  | 63  | 65 | 64 | 63 | 46 | 72    |

### Dimensiones





## **2.5.- VASOS DE EXPANSIÓN**



## PRODUCCION DE FRIO - VASO DE EXPANSION G 3000

### Datos generales

Tipo de aplicación : Circuitos cerrados  
 Tipo de vaso : Sin transferencia de masa  
 Modelo de vaso : G 3000  
 Temperatura de llenado : 10.0 °C

### Volumen de agua

El volumen de la instalación : Es conocido  
 N° de tramos a calcular : 1  
 Volumen de la instalación : 104000.0 litros

### Datos de cálculo

Concentración de etilenglicol : 0.0 %  
 Presión estática : 45.0 m  
 Presión mínima - tª mínima : 5.5 bar  
 Presión máxima - tª máxima : 6.5 bar  
 Presión de la válvula de seguridad : 7.0 bar

### Tramos

| Volumen  | Tª mínima | Tª máxima |
|----------|-----------|-----------|
| 104000 l | 7 °C      | 25 °C     |

### Modelo seleccionado

Vaso de expansión principal : 1 x G 3000

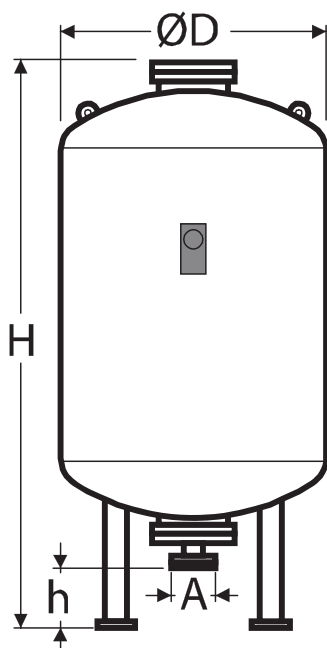
### Datos técnicos del conjunto

Presión máxima de trabajo : 10 bar  
 Pres. vaso sin conectar al circuito : 5.3 bar  
 Cap. de acumulación necesaria : 2301.6 litros  
 Expansión total de la instalación : 297.4 litros  
 Volumen de agua en el vaso a  
 - temperatura mínima : 92.3 litros  
 - temperatura de llenado : 113.1 litros

### Dimensiones del vaso G 3000

Anchura (D) : 1500.0 mm  
 Altura (H) : 2580.0 mm  
 Diámetro de conexiones (A) : DN 65  
 Peso : 870.0 kg

### Croquis del vaso G 3000



### Características del tipo Thermopress G

- Para sistemas de calefacción y climatización.
- Conexiones embridadas PN6 a 6 bar y PN10 a 10 bar.
- Membrana recambiable.
- Temp. máxima del vaso: 70°C.
- Temp. máxima de la instalación: 120°C.
- Homologación según directiva 97/23/CE de aparatos a presión.
- Con orificio de inspección.
- Con manómetro en el lado del nitrógeno.
- Color gris.
- Presión inicial : 3.5 bar



## DISTRIBUCION DE FRIO- VASO DE EXPANSION G 3000

**Datos generales**

Tipo de aplicación : Circuitos cerrados  
 Tipo de vaso : Sin transferencia de masa  
 Modelo de vaso : G 3000  
 Temperatura de llenado : 10.0 °C

**Volumen de agua**

El volumen de la instalación : Es conocido  
 N° de tramos a calcular : 1  
 Volumen de la instalación : 233522.0 litros

**Datos de cálculo**

Concentración de etilenglicol : 0.0 %  
 Presión estática : 45.0 m  
 Presión mínima - tª mínima : 5.5 bar  
 Presión máxima - tª máxima : 6.5 bar  
 Presión de la válvula de seguridad : 7.0 bar

**Tramos**

| Volumen  | Tª mínima | Tª máxima |
|----------|-----------|-----------|
| 233522 l | 7 °C      | 25 °C     |

**Modelo seleccionado**

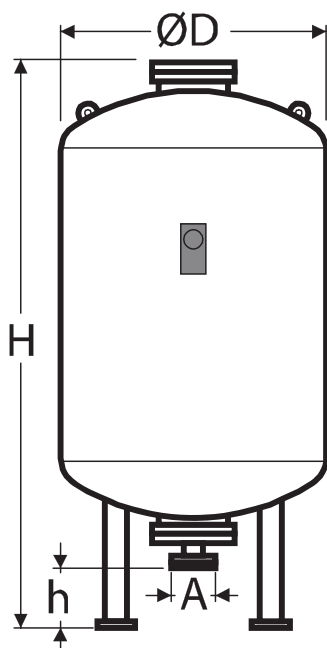
Vaso de expansión principal : 2 x G 3000

**Datos técnicos del conjunto**

Presión máxima de trabajo : 10 bar  
 Pres. vaso sin conectar al circuito : 5.3 bar  
 Cap. de acumulación necesaria : 5168.1 litros  
 Expansión total de la instalación : 667.9 litros  
 Volumen de agua en el vaso a  
 - temperatura mínima : 184.6 litros  
 - temperatura de llenado : 231.3 litros

**Dimensiones del vaso G 3000**

Anchura (D) : 1500.0 mm  
 Altura (H) : 2580.0 mm  
 Diámetro de conexiones (A) : DN 65  
 Peso : 870.0 kg

**Croquis del vaso G 3000****Características del tipo Thermopress G**

- Para sistemas de calefacción y climatización.
- Conexiones embridadas PN6 a 6 bar y PN10 a 10 bar.
- Membrana recambiable.
- Temp. máxima del vaso: 70°C.
- Temp. máxima de la instalación: 120°C.
- Homologación según directiva 97/23/CE de aparatos a presión.
- Con orificio de inspección.
- Con manómetro en el lado del nitrógeno.
- Color gris.
- Presión inicial : 3.5 bar



## **2.6.-ENFRIADORAS**



## EWASH19TZSSD2



- > Air cooled chiller
- > Inverter driven single screw compressor
- > Silver Efficiency
- > Standard sound configuration
- > R513A refrigerant

- ➔ **Unit description:** Daikin air-cooled chiller with inverter driven screw compressor and R513A refrigerant. Unit colour is ivory White (Munsell code 5Y7.5/1) (±RAL7044).
- ➔ **Compressor:** Semi-hermetic single screw compressor type with integrated Variable Frequency Drive (VFD) designed by Daikin to achieve optimized performances at full capacity as well as in part-load conditions. The capacity is continuously modulated by the integrated VFD. The drive is cooled directly by the refrigerant allowing for continuous operation regardless environmental condition (unlike the air cooled and glycol cooled drives). Gold and Platinum versions are also equipped with Variable Volume Ratio (VVR) technology to further enhance compression efficiency during part load operation.
- ➔ **Evaporator:** The single circuit unit is equipped with direct expansion plate to plate evaporator made of stainless-steel brazed plates with an electric heater for protection against freezing and Victaulic type water connections as standard. The dual circuit unit is equipped with direct expansion shell & tube evaporator with enhanced copper tubes rolled into steel tube sheets for maximum heat transfer. The evaporators are single-pass on both refrigerant and water sides with low refrigerant pressure drops and Victaulic type water connections as standard.
- ➔ **Condenser:** Full Aluminum – Microchannel type is provided as standard configuration. It is made entirely of aluminum with flat tubes containing small channels. Full-depth louvered aluminum fins are inserted between the tubes maximizing the heat exchange. The microchannel technology ensures the highest performance with the minimum surface for the exchanger. The quantity of refrigerant charge is reduced if compared to tubes and fins condenser. Cu/Al - Tube & fins type is available as option. It is manufactured with internally enhanced seamless copper tubes arranged in a staggered row pattern and mechanically expanded into lanced and rippled aluminum air side heat exchanger fins with full fin collars. An integral sub-cooler circuit provides sub-cooling to effectively eliminate liquid flashing and increase cooling capacity without increasing the power input.
- ➔ **Condenser fans:** The condenser fans are propeller type with high efficiency design blades developed by Daikin to maximize performances. Standard units are equipped with AC motor fans, EC motors are available as option to enhance efficiency at part load, to reduce sound and extend operating range towards negative ambient temperatures.
- ➔ **Refrigerant circuit:** Each unit has one or two independent refrigerant circuits and each one includes: Compressor, Refrigerant, Evaporator, Air Cooled Condenser, Electronic expansion valve, Sight glass with moisture indicator, Filter drier, Charging valves, High pressure switch, High pressure transducers, Low pressure transducers, Oil pressure transducers and Suction temperature sensor.
- ➔ **Electrical:** Power and control are in the main panel that is manufactured to ensure protection against all weather conditions. It is IP54 and internally protected against possible accidental contact with live parts when the doors are open. The main panel is fitted with interlocked main switch door that interrupts power supply when opening.





## EWASH19TZSSD2



- > Air cooled chiller
- > Inverter driven single screw compressor
- > Silver Efficiency
- > Standard sound configuration
- > R513A refrigerant



**Controller:** New MicroTech 4 controller provides an easy-to-use control environment. The control logic is designed to provide maximum efficiency, to continue operation in unusual operating conditions and to provide history of unit operation. Easy interface with, BACnet, Ethernet TCP/IP or Modbus communications. Master/Slave operation is provided as standard allowing to connect 4 units working as single system.





## Unit Overview

| Model Number  | Efficiency version | Sound configuration | Power supply       |
|---------------|--------------------|---------------------|--------------------|
| EWASH19TZSSD2 | Silver             | Standard            | 400 V / 50 Hz / 3~ |

Performances calculated according to EN14511-3

## Cooling mode performances

|                        |                        |                |                |
|------------------------|------------------------|----------------|----------------|
| Cooling capacity       | 1801 kW                | IPLV.IP        | 5.756 kW / kW  |
| Power input            | 842.6 kW               | SEER           | 5.076 kW / kW  |
| Cooling Efficiency EER | 2.137 kW / kW          | $\eta_{s,c}$   | 200.0 %        |
| F1_lwlp_15m            | 102 dB(A) / 66.0 dB(A) | SEPR           | 6.016 kW / kW  |
| Ambient temperature    | 40.0 °C                |                |                |
| Evaporator             |                        |                |                |
| Fluid IN/OUT           | 12.00 °C / 7.00 °C     | Fluid Flow     | 85.83 l/s      |
| Pressure Drops         | 66.3 kPa               | Fouling Factor | 0.00e+0°C m²/W |
| Fluid                  | Water                  |                |                |

SEER declared according to EN14825, fan coil application 12/7°C (inlet/outlet) water temperatures. SEPR declared according to EN14825, high temperature process cooling application (not Eurovent certified). Sound power level according to ISO 9614-1. IPLV.IP and seasonal efficiency data generally refer to standard unit without option.

## Unit information

|                    |          |                        |              |
|--------------------|----------|------------------------|--------------|
| Capacity control   | Stepless | Condenser fans control | Brushless    |
| Compressor type    | Screw    | Condenser type         | Microchannel |
| Compressor N°      | 2        | Condenser fans N°      | 24           |
| Circuit N°         | 2        | Nominal air flow       | 152940 l/s   |
| Refrigerant type   | R513A    | Evaporator type        | ShellAndTube |
| Refrigerant charge | 270 kg   | Altitude               | 650 m        |

Refrigerant charge data is intended as guideline only, refer to unit nameplate for specific value.

## Electrical information

|                      |                    |                            |                          |
|----------------------|--------------------|----------------------------|--------------------------|
| Power supply         | 400 V / 50 Hz / 3~ | Compressor starting method | Variable Frequency Drive |
| Running current      | 1378 A             | Max. current wires sizing  | 1621 A                   |
| Max. Running current | 1608 A             | Max. inrush current        | 0.00 A                   |

Voltage tolerance  $\pm 10\%$ . Phase Voltage unbalance  $\pm 3\%$ . Electrical data are referred to base unit without additional options, refer to unit nameplate for specific value.

## Acoustic information

### Sound pressure level at 1 m from the unit (rif. $2 \times 10^{-5}$ Pa)

| 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | db(A) |
|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| 86.7  | 78.3   | 78.2   | 78.0   | 75.3    | 67.6    | 61.3    | 58.0    | 79.3  |

Values referred to Evap. IN/OUT 12/7°C and 35°C Amb, full load operation, to base unit without additional options. Sound pressure level calculated from sound power level. Sound pressure in octave band is for intended as guideline only and not considered binding.

## Physical information

|                           |                     |        |          |
|---------------------------|---------------------|--------|----------|
| Connections size          | 273 mm              | Length | 13568 mm |
|                           |                     | Width  | 2238 mm  |
| Weight shipping/operating | 11471 kg / 12482 kg | Height | 2553 mm  |

Information referred to standard unit configuration without options, refer to certified unit drawing.



Specifications are subject to change without any prior notice.

The certified standard performances and the certified software tool version can be verified in [www.eurovent-certification.com](http://www.eurovent-certification.com)



## Options

|      |  |
|------|--|
| 220  | MOBILE APP HMI (ACCESS POINT ONLY)                           |
| 20   | EVAPORATOR VICTAULIC KIT                                     |
| 96   | AUTOMATIC CIRCUIT BREAKERS (FANS)                            |
| 16A  | ENERGY METER (INCLUDING CURRENT LIMIT)                       |
| 128  | MASTER SLAVE   |
| 69   | GENERAL FAULT CONTACTOR                                      |
| 60   | ELECTRONIC EXPANSION DEVICE                                  |
| 97   | MAIN SWITCH INTERLOCK  |
| 62   | SUCTION LINE SHUT OFF VALVE                                  |
| 15   | PHASE MONITOR AND UNDER / OVERVOLTAGE CONTROL                |
| 14   | INVERTER COMPRESSOR STARTER                                  |
| 90   | SET-POINT RESET, DEMAND LIMIT AND ALARM FROM EXTERNAL DEVICE |
| 68   | HOUR RUN METER   |
| 42B  | SPEEDTROL (MIN AMBIENT -20°C)                                |
| 10   | DOUBLE SET POINT   |
| 76-b | SOUND PROOF SYSTEM (COMPRESSOR)                              |
| 61   | DISCHARGE LINE SHUT OFF VALVE                                |
| 29   | 20 MM EVAPORATOR INSULATION                                  |
| 13A  | PHASE SEQUENCE PROTECTION                                    |
| 11A  | THERMAL OVERLOAD PROTECTION                                  |
| 186  | PERFORMANCE MONITORING                                       |
| 141  | SIDE PANELS ON COIL ENDS                                     |
| 77   | SPRING ANTI VIBRATION MOUNT                                  |
| 67   | AMBIENT OUTSIDE TEMPERATURE SENSOR AND SET-POINT RESET       |
| 57   | EVAPORATOR ELECTRIC HEATER                                   |
| 142  | HIGH AMBIENT KIT (OPERATION ABOVE 46°C)                      |
| 229  | BRUSHLESS FAN (WITH FAN SILENT MODE)                         |

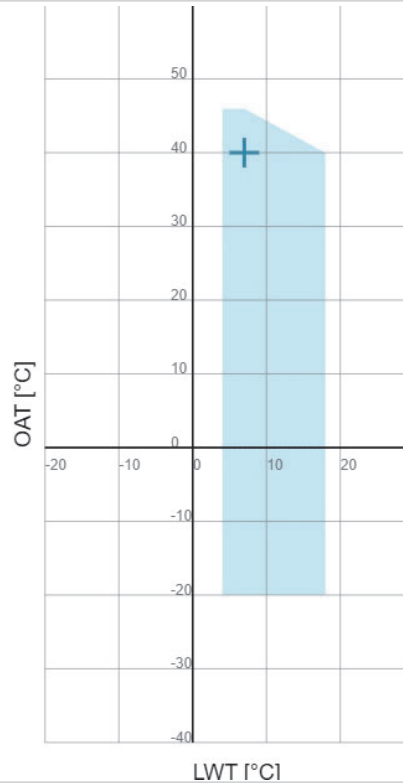
## General notes

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## Envelope chart



## Certification notes

Within the scope of AHRI Air-Cooled Water-Chilling Packages Certification Program. AHRI Certified performance may be obtained from the manufacturer's representative

Certified in accordance with Eurovent Certification Program: Liquid Chilling Packages and Heat Pumps (LCP-HP). Standard ratings are specified in the section "Rating requirements" of the Rating Standards. All standard ratings are verified by tests conducted in accordance with the following standards: EN 14511-3 (performance testing) and ISO 9614 (acoustic testing).

