

AIR HANDLING UNIT SELECTION WORKSHEET

Project:
Project
No.:

Date:
Calc. By:

Unit Identification

| | |
|----------------------------------|--------------|
| Number: | AHU-1 |
| Total CFM of Constant Vol. Boxes | = 60000 cfm |
| Total CFM of Variable Vol. Boxes | = 0 cfm |
| Diversity of VAV System (%) | = 100% |
| CFM of VAV Boxes with Diversity | = 0 cfm |

COOLING COIL DATA

| | |
|----------------------------------|--------------------|
| Total CFM of Constant Vol. Boxes | = 60000 cfm |
| Total CFM of Variable Vol. Boxes | = 0 cfm |
| Total CFM | = 60000 cfm |
| Scheduled AHU CFM | = 60000 cfm |
| Coil Area @ 500 fpm | = 120.0 sf |

| | |
|----------------------------------|--------------------|
| Total Exhaust CFM | = 10800 cfm |
| Percent Outside Air | = 20% |
| Outside Air | = 12000 cfm |
| Scheduled Outside Air CFM | = 12000 cfm |
| Percent Pressurization | = 10.0% |
| Is pressure between 0% and 10%? | YES |
| Return Air CFM | = 48000 cfm |

| | DB | WB |
|---------------------|-----------|-----------|
| Outside Air Temp. = | 98.0°F | 74.0°F |
| Return Air Temp. = | 75.0°F | 62.6°F |

| | |
|---------------------------|------------------|
| Number of People | = 100 |
| Total Sensible Heat (with | = 1,745,605 Btuh |
| Total Latent Heat (with | = 207,530 Btuh |
| Return Air Temperature | = 75.0°F |
| Room Delta T | = 20.0°F |

| | |
|-------------------|----------------|
| Fan Location/Type | = Blow Thru |
| Motor Heat Gain | = 152,155 Btuh |
| Temperature Rise | = 2.3°F |

| | DB | WB | Enthalpy |
|----------------------|-----------|-----------|-----------------|
| Entering Air Temp. = | 81.94°F | 64.84°F | 29.16 |
| Leaving Air | 55.00°F | 54.50°F | 22.87 |

| | |
|--------------------------------------|-------------------------|
| Grand Total Heat (with 0% SF) | = 1,698,380 Btuh |
| Tonnage | = 141.5 tons |
| Leaving Water Temperature | = 58.0°F |
| Entering Water Temperature | = 44.0°F |
| Chilled Water Flow | = 242.6 gpm |

| | |
|--------------------------|-----------------------|
| Outside Air Temperature | = 10.0°F |
| Return Air Temperature | = 75.0°F |
| Entering Air Temperature | = 62.0°F |
| Pre-Heat Coil BTU | = Not Required |

| | |
|---------------------------------------|--------------------|
| Entering (or Outside) Air Temperature | = 62.0°F |
| Leaving Air Temperature | = 100.0°F |
| Re-Heat (or Heating) Coil BTU | = 2,462,400 |

AHU STATIC PRESSURE CALCS

External Static Pressure

| | | | |
|---------------------------------------|---|----------|-----------------|
| Discharge Plenum | | 0.25 in. | 0.00 in. |
| Final | | 1.00 in. | 0.00 in. |
| Med. Pressure Duct | | 0 ft. | 0.00 in. |
| Terminal | | 0.75 in. | 0.00 in. |
| Reheat | | 0.25 in. | 0.00 in. |
| Low Pressure S.A. | | 200 ft. | 0.16 in. |
| Volume Damper | 1 | 0.10 in. | 0.10 in. |
| Supply Air Grille | 1 | 0.10 in. | 0.10 in. |
| Return Air Device | 1 | 0.10 in. | 0.10 in. |
| Low Pressure R.A. | | 200 ft. | 0.16 in. |
| Return Air Plenum | 1 | 0.25 in. | 0.25 in. |
| Pre-Filter | 1 | 0.60 in. | 0.60 in. |
| Fire Dampers | 1 | 0.20 in. | 0.20 in. |
| Smoke Dampers | | 0.20 in. | 0.00 in. |
| Fire/Smoke | | 0.20 in. | 0.00 in. |
| O.A. | 1 | 0.15 in. | 0.15 in. |
| Outside Air Damper | 1 | 0.10 | 0.10 in. |
| Outside Air Duct | | 100 ft. | 0.08 in. |
| Misc. | | | 0.00 in. |
| Misc. | | | 0.00 in. |
| Misc. | | | 0.00 in. |
| Total External Static Pressure | | | 2.00 in. |

Scheduled

Internal Static Pressure

| | | | |
|---------------------------------------|---|----------|-----------------|
| Pre-Filter | | 0.50 in. | 0.00 in. |
| Mixing | | 0.25 in. | 0.00 in. |
| Blender/Dampers | | 0.20 in. | 0.00 in. |
| Pre-Heat Coil | | 0.25 in. | 0.00 in. |
| Cooling | 1 | 0.35 in. | 0.35 in. |
| Reheat Coil | 1 | 0.25 in. | 0.25 in. |
| Diffuser Section | | 0.40 in. | 0.00 in. |
| Cartridge/Final | 1 | 1.20 in. | 1.20 in. |
| Discharge Plenum | | 0.15 in. | 0.00 in. |
| Total Internal Static Pressure | | | 1.80 in. |
| Total Static Pressure | | | 3.80 in. |

Scheduled Total S.P.

| | |
|-------------------------|--------------------|
| Brake Horsepower | = 59.79 BHP |
|-------------------------|--------------------|

PRE-HEAT COIL DATA

| | |
|-----------------------------|--------------|
| Entering Water Temperature | = 200.0°F |
| Leaving Water Temperature | = 160.0°F |
| Leaving Air Temperature | = 60.0°F |
| Hot Water Flow (GPM) | = 0.0 |

RE-HEAT (OR HEATING) COIL DATA

| | |
|-----------------------------|----------------|
| Entering Water Temperature | = 200.0°F |
| Leaving Water Temperature | = 160.0°F |
| Hot Water Flow (GPM) | = 123.1 |

Manual J Calculation Spreadsheet

Thomas Griffiths

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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