

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.

3.80 in.

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

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