

AIR HANDLING UNIT SELECTION WORKSHEET

Project:

Project:

No.:

Unit Identification

Number:

Total CFM of Constant

AHU-1

Vol. Boxes

60000 cfm

Total CFM of Variable

0 cfm

Vol. Boxes

100%

Diversity of VAV System

0 cfm

CFM of VAV Boxes with

Diversity

COOLING COIL DATA

Total CFM of Constant

60000 cfm

Vol. Boxes

0 cfm

Total CFM of Variable

0 cfm

Vol. Boxes

60000 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

12000 cfm

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)

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

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

2.00 in.

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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