

# AIR HANDLING UNIT SELECTION WORKSHEET

Project:  
Project  
No.:

Date:  
Calc. By:

Unit Identification

Number:		<b>AHU-1</b>
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
<b>Scheduled AHU CFM</b>	=	<b>60000 cfm</b>
Coil Area @ 500 fpm	=	120.0 sf

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

	<b>DB</b>	<b>WB</b>
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

	<b>DB</b>	<b>WB</b>	<b>Enthalpy</b>
Entering Air Temp. =	81.94°F	64.84°F	29.16
Leaving Air	55.00°F	54.50°F	22.87

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

Outside Air Temperature	=	10.0°F
Return Air Temperature	=	75.0°F
Entering Air Temperature	=	62.0°F
<b>Pre-Heat Coil BTU</b>	=	<b>Not Required</b>

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

## 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.
<b>Total External Static Pressure</b>			<b>2.00 in.</b>

### 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.
<b>Total Internal Static Pressure</b>	=		<b>1.80 in.</b>
<b>Total Static Pressure</b>	=		<b>3.80 in.</b>

### Scheduled Total S.P.

<b>Brake Horsepower</b>	=	<b>59.79 BHP</b>
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## PRE-HEAT COIL DATA

Entering Water Temperature	=	200.0°F
Leaving Water Temperature	=	160.0°F
Leaving Air Temperature	=	60.0°F
<b>Hot Water Flow (GPM)</b>	=	<b>0.0</b>

## RE-HEAT (OR HEATING) COIL DATA

Entering Water Temperature	=	200.0°F
Leaving Water Temperature	=	160.0°F
<b>Hot Water Flow (GPM)</b>	=	<b>123.1</b>

# Hvac Manual J Spreadsheet Mass

**Ying-Ying Zheng**

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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