

# AIR HANDLING UNIT SELECTION WORKSHEET

Project: Project No.: Unit Identification Number: 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	Date: Calc. By:
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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	
	<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>Enthalp</b>
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	

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.
<b>Scheduled</b>			<b>2.00 in.</b>
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.
<b>Scheduled Total S.P.</b>		=	<b>3.80 in.</b>
<b>Brake Horsepower</b>		=	<b>59.79 BHP</b>

PRE-HEAT COIL DATA		
Entering 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

RE-HEAT (OR HEATING) 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
Entering Water Temperature	=	200.0°F
Leaving Water Temperature	=	160.0°F
Hot Water Flow (GPM)	=	123.1

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**Lei Shi**

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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