

AIR HANDLING UNIT SELECTION WORKSHEET

Project: _____		Date: _____	
Project No.: _____		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. =	96.0°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	Enthalp
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

Manual J Calculations Worksheet

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Table of Contents Manual J Calculations Worksheet

1. Understanding the eBook Manual J Calculations Worksheet
 - The Rise of Digital Reading Manual J Calculations Worksheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Manual J Calculations Worksheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Manual J Calculations Worksheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Manual J Calculations Worksheet
 - Personalized Recommendations
 - Manual J Calculations Worksheet User Reviews and Ratings
 - Manual J Calculations Worksheet and Bestseller Lists
5. Accessing Manual J Calculations Worksheet Free and Paid eBooks
 - Manual J Calculations Worksheet Public Domain eBooks
 - Manual J Calculations Worksheet eBook Subscription Services
 - Manual J Calculations Worksheet Budget-Friendly Options

6. Navigating Manual J Calculations Worksheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Manual J Calculations Worksheet Compatibility with Devices
 - Manual J Calculations Worksheet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Manual J Calculations Worksheet
 - Highlighting and Note-Taking Manual J Calculations Worksheet
 - Interactive Elements Manual J Calculations Worksheet
8. Staying Engaged with Manual J Calculations Worksheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Manual J Calculations Worksheet
9. Balancing eBooks and Physical Books Manual J Calculations Worksheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Manual J Calculations Worksheet
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Manual J Calculations Worksheet
 - Setting Reading Goals Manual J Calculations Worksheet
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Manual J Calculations Worksheet
 - Fact-Checking eBook Content of Manual J Calculations Worksheet
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

-
- Interactive and Gamified eBooks

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