

# 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.

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
<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>

# Manual J Residential Load Calculation Worksheet

**United States. Congress. Senate.  
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## **Manual J Residential Load Calculation Worksheet:**

*Manual J - Residential Load Calculation* Hank Rutkowski, 2011-11-01 Manual J 8th Edition is the national ANSI recognized standard for producing HVAC equipment sizing loads for single family detached homes small multi unit structures condominiums town houses and manufactured homes This new version incorporates the complete Abridged Edition of Manual J The manual provides quick supplemental details as well as supporting reference tables and appendices A proper load calculation performed in accordance with the Manual J 8th Edition procedure is required by national building codes and most state and local jurisdictions

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**Solar Heating and Cooling of Residential Buildings** Colorado State University. Solar Energy Applications Laboratory,1977 *Principles of Air Conditioning* V. Paul Lang,1987 Heating and Cooling of Buildings T. Agami Reddy,Jan F. Kreider,Peter S. Curtiss,Ari Rabl,2016-09-01 Heating and Cooling of Buildings Principles and Practice of Energy Efficient Design Third Edition is structured to provide a rigorous and comprehensive technical foundation and coverage to all the various elements inherent in the design of energy efficient and green buildings Along with numerous new and revised examples design case studies and homework problems the third edition includes the HCB software along with its extensive website material which contains a wealth of data to support design analysis and planning Based around current codes and standards the Third Edition explores the latest technologies that are central to design and operation of today's buildings It serves as an up to date technical resource for future designers practitioners and researchers wishing to acquire a firm scientific foundation for improving the design and performance of buildings and the comfort of their occupants For engineering and architecture students in undergraduate graduate classes this comprehensive textbook Building Tips for the Homeowner Neil Tschida,2020-10-15 This is the book that I wish I'd read years ago Written by someone with over thirty years experience Building Tips For The Homeowner shows tips techniques and methods that are used for working on a house for anything from simple repairs finishing off the basement remodeling a bathroom building a deck or even putting an addition on the house Some of the subjects covered are framing wiring plumbing heating insulation and sheetrock Also included are step by step instructions on how to build stairs hang doors install trim and baseboard and finish off egress windows plus simple jigs and scaffolds that you can make codes and size requirements etc 463 pages with hundreds of photos and drawings

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**Environmental Systems Library: [manual].** Air Conditioning Contractors of America, 1955 Intermediate Minimum Property Standards for Solar Heating and Domestic Hot Water Systems United States. Department of Housing and Urban Development, 1977 HUD Minimum Property Standards: Solar heating and domestic hot water systems Center for Faith-Based and Community Initiatives (United States. Department of Labor), 1973

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