

# 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>Enthalp</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 Calculation Example

**Upstryve Inc**



## **Manual J Calculation Example:**

**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 *Solar Energy Technology Handbook* E. W. Dickinson, 2018-05-04 The handbook for convenient use is divided into eight main units 1 The Solar Resource 2 Solar Thermal Collectors 3 Photovoltaics 4 Bioconversion 5 Wind Energy 6 Solar Energy Storage Systems 7 Applications of Solar Energy 8 Non technical Issues In addition there are three Appendixes containing unit conversion tables and useful solar data It became obvious early in this project that if proper coverage were to be given each of these areas it would be necessary to divide the handbook into two volumes The first six units constitute Part A Engineering Fundamentals and the last two units constitute Part B Applications Systems Design and Economics These volumes have been prepared primarily as reference books but it is felt that many of the sections will prove useful for practicing engineers scientists and students *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 **Audel HVAC Fundamentals, Volume 1** James E. Brumbaugh, 2012-07-02 A reference you ll warm up to From the background and basics of heating systems to the newest chip based technology this first volume of Audel s HVAC Library gives you comprehensive information you need on the job Whether you re installing servicing repairing or troubleshooting an old or new heating system you ll find what you re looking for from wood and coal furnace maintenance to new calculations and the latest environmental technologies and regulations Review the basics of installation wiring and troubleshooting for different HVAC systems Choose the correct system for the space climate and needs Compare the economy and efficiency of various fuel types Install maintain and troubleshoot conversion units Find formula cross references data tables with conversions and listings of trade organizations and equipment manufacturers **Refrigeration & Air Conditioning 101** Dennis P. Ukele, 2022-11-03 After over forty years of the refrigeration and air conditioning industry many changes have occurred In order for one to keep up to date most technical documents have not been seriously updated for current accuracy This volume attempts to modernize some of the values that have undergone change over the years **Residential Equipment Selection** Manual S , **2023 Florida County PROV Master Mechanical Contractor Exam Prep** Upstryve Inc, Get one step closer to becoming a Florida County PROV Master Mechanical Contractor with a prep course designed by 1ExamPrep to help you conquer the Florida County

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