

# AIR HANDLING UNIT SELECTION WORKSHEET

Project:  
Project  
No.:

Date:  
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. =	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

	DB	WB	Enthalpy
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

**Air Conditioning Contractors of  
America**



## **Manual J Calculations 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 *How to Install an HVAC Unit: A guide to installing a new HVAC system, including proper placement and sizing* Charles Nehme, In today s world the importance of a comfortable indoor environment cannot be overstated Whether in our homes offices or commercial spaces heating ventilation and air conditioning HVAC systems play a crucial role in maintaining our well being and productivity However many homeowners and DIY enthusiasts are often overwhelmed by the complexity of installing a new HVAC system That s where this guide comes in This book is designed to demystify the HVAC installation process providing clear step by step instructions to help you successfully install a new system in your home or business With over insert years of experience years of experience in the HVAC industry I have witnessed firsthand the challenges many face when attempting to tackle this task I understand the frustration that can arise from navigating technical specifications sizing issues and installation intricacies In this guide you will find practical advice on assessing your needs choosing the right system and understanding the critical importance of proper placement and sizing Each chapter is structured to build your knowledge and confidence whether you are a seasoned professional or a beginner embarking on your first installation project Moreover this book emphasizes the importance of safety and compliance with local codes ensuring that you not only achieve optimal performance from your HVAC system but also adhere to legal standards I will provide troubleshooting tips and maintenance advice to help you keep your system running efficiently for years to come As you delve into the following chapters I encourage you to take your time gather your tools and approach each step with patience and diligence Remember proper installation is the foundation of an efficient HVAC system and a well installed unit can significantly enhance your comfort while reducing energy costs I hope this guide serves as a valuable resource on your journey to mastering HVAC installation Let s get started on creating a comfortable and energy efficient environment for you and your loved ones Warm regards Charles Nehme

**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     **Energy Research and Development and Small Business: how much? How much more from small business? How soon?** United States. Congress. Senate. Select Committee on Small Business,1975     *Energy Research and Development and Small Business* United States. Congress. Senate. Select Committee on Small Business,1975     **Environmental Systems Library: [manual].** Air Conditioning Contractors of America,1955     **Adjusting Central Air Conditioning Systems for Maximum Comfort** National Environmental Systems Contractors Association,1957     *Principles of Air Conditioning* V. Paul Lang,1987     Building Technology Benjamin Stein,1996 The complete guide to building technology This comprehensive guide provides complete coverage of every aspect of the building technologist s profession It details design and installation procedures describes all relevant equipment and hardware and illustrates the preparation of working drawings and construction details that meet project specifications code requirements and industry standards The author establishes procedures for professional field inspections and equipment operations tests provides real world examples from both residential and nonresidential construction projects and makes specific references to code compliance throughout the text This new edition incorporates changes in building codes advances in materials and design techniques and the emergence of computer aided design CAD while retaining the logical structure and helpful special features of the first edition More than 1 100 drawings tables and photographs complement and illustrate discussions in the text Topics covered include Heating ventilating and air conditioning systems equipment and design Plumbing systems equipment and design Electrical and lighting systems equipment and design Testing adjusting and balancing procedures for all building systems Every aspect of the building technologist s profession from the creation of working drawings through on site supervision and systems maintenance Extensive appendices include conversion factors duct design data test report forms for use in field work design forms and schedules for electrical HVAC and plumbing work and more     *Warm Air Heating & Air Conditioning Library* National Warm-Air Heating and Air Conditioning Association (U.S.),1961     Architectural Drawing and Light Construction Edward John Muller,James G. Fausett,1993     *Scientific, Technical, and Engineering Societies Publications in Print* ,1974     **Scientific, Technical, and Engineering Societies Publications in Print** James M. Kyed,James M. Matarazzo,1974     The Basics of Applied Geothermal Engineering Edward F. Wehlage,1975     **Mechanical and Electrical Equipment for Buildings** William J. McGuinness,Benjamin Stein,1971     **Mechanical and Electrical Equipment for Buildings** Charles Merrick Gay,William J. McGuinness,1964     **Load Calculation for Residential Winter and Summer Air Conditioning** ,1986     Warm Air Heating for Climate Control William B. Cooper,1994 This book forms a complete guide to the installation maintenance and service of gas oil and electric forced warm air heating systems     *Refrigeration and Air-conditioning* Air-Conditioning and Refrigeration Institute,1979 Helps prepare readers for the Federally required EPA

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