

# 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		<b>2.00 in.</b>
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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.	=	<b>3.80 in.</b>
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

**Hussin A.Rothana**



## **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 30 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* United States. Congress. Senate. Select Committee on Small Business,1975

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

**Maximum Comfort** National Environmental Systems Contractors Association,1957 **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 **How to Design an HVAC System: A Comprehensive Guide** Charles Nehme, In an era where our lives are increasingly spent indoors the quality of our built environments has never been more paramount From the air we breathe to the thermal comfort we experience the unseen forces of heating ventilation and air conditioning HVAC systems silently orchestrate our well being productivity and health Yet for many the intricate workings of HVAC remain a mystery often relegated to an afterthought in the grand scheme of architectural design This oversight however comes at a significant cost not only in terms of comfort and health but also in substantial energy consumption and environmental impact Having dedicated over three decades to the dynamic world of HVAC and MEP consulting across diverse global landscapes I ve witnessed firsthand the transformative power of well designed systems and the profound consequences of their neglect From the complex industrial facilities that power our economies to the towering commercial structures where innovation thrives and the intimate residential spaces we call home the principles of optimal air management remain universal yet their application demands nuanced understanding and precise execution This book **Mastering HVAC System Design A Comprehensive Guide** is born from that extensive experience and a deep seated commitment to demystifying the art and science of HVAC engineering It is crafted not just for seasoned professionals seeking to refine their expertise but also for aspiring engineers architects building owners and anyone keen to understand the critical

backbone of modern structures My aim is to bridge the gap between theoretical knowledge and practical application providing a holistic framework that empowers you to design systems that are not only efficient and effective but also sustainable and resilient We will embark on a journey from the fundamental principles of heat transfer and psychrometrics through the meticulous process of load calculations to the intricate dance of equipment selection and sophisticated control strategies We will delve into the critical aspects of indoor air quality energy efficiency and the long term stewardship of these vital systems through proper commissioning and maintenance My hope is that this guide serves as your trusted companion illuminating the path to creating environments that are healthier more comfortable and significantly more sustainable for generations to come Let us design smarter buildings so we can all breathe better Charles Nehme Global HVAC and MEP Consultant

**Environmental Systems Library: [manual].** Air Conditioning Contractors of America,1955 **Solar Heating and Cooling of Residential Buildings** Colorado State University. Solar Energy Applications Laboratory,1977

**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 **Handbook of**

**Construction Contracting: Plans, specs, building** Jack Payne Jones,1986 This book covers the whys and hows of sound construction with step by step instructions showing how to handle the details in all construction **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 PROV Master Mechanical computer based examination Our courses make it convenient and easy for EVERY type of student who is attempting to obtain a contractor s license The course includes Test taking techniques and tips Tab and highlight locations

for every required book Hundreds of Practice questions We base these per book so you can understand which questions come from which book to better know where to find the answer as well as final exams to reinforce your test taking skills

*Geothermal Heat Pumps: Installation Guide* Stephen K. Ewings, 2008-10      **Scientific, Technical, and Engineering Societies Publications in Print** James M. Kyed, James M. Matarazzo, 1974      *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      **Hvac: Technical Skills for Hvac Technicians and Installers (The Ultimate Guide to Mastering Heating, Ventilation, and Air Conditioning Systems)** George Dumas, 101-01-01

This comprehensive guide deeply delves into the complex world of Heating Ventilation and Air Conditioning systems providing a well rounded understanding of their components and functionality and what it takes to become a Technician or Installer Designed to keep the readers a step ahead in the dynamic HVAC industry Valuable practical HVAC installation and repair skills are discussed in detail preparing you to tackle real world scenarios confidently Inverters and VRF systems are the new normal This book is an essential addition to your professional library offering a blend of theoretical knowledge and mostly practical application in the HVAC industry Learn Is there a Labour Shortage in HVAC Where do you find work in this industry The Difference 5 years can make Why Most Apprentices Begin Their Career as a Liability Invest in Yourself and Seek a Mentor Which are the Basic Skills Needed as an Installer What does an Installer need to know How to be the Best Technician This book is more than just information it s empowerment Whether you re a homeowner seeking to understand your HVAC system better a DIY enthusiast wanting to tackle HVAC projects or someone keen on making informed decisions without being dependent on professionals this book is your ultimate companion

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