

AIR HANDLING UNIT SELECTION WORKSHEET

Project: Project No.: Unit Identification Number: 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	Date: Calc. By:
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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	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	

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 2.00 in.			
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 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

RE-HEAT (OR HEATING) 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
Entering Water Temperature	=	200.0°F
Leaving Water Temperature	=	160.0°F
Hot Water Flow (GPM)	=	123.1

Manual J Residential Load Calculation Worksheet

G Psacharopoulos



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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Energy Research and Development and Small Business United States. Congress. Senate. Select Committee on Small Business, 1975

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

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

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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

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

Load Calculation ,1988

Scientific, Technical, and Engineering Societies Publications in Print James M. Kyed,James

M. Matarazzo,1974

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remove immobiliser ecu from the car and open it find 93cl66 eeprom in dip package use a5 or a4 adapter and follow carprog
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web feb 9 2023 step 1 check your key and door cylinder if your engine fails to start indicating that the immobilizer is on and
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