

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.

Brake Horsepower	= 59.79 BHP
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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

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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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International Conference on Intelligent Computing and Optimization held in Pattaya Thailand on October 4 5 2018 The conference presented topics ranging from power quality reliability security assurance cloud computing smart cities renewable energy agro engineering smart vehicles deep learning block chain power systems AI machine learning manufacturing systems and big data analytics This volume focuses on subjects related to innovative computing uncertainty management and optimization approaches to real world problems in big data smart cities sustainability meta heuristics cyber security IoTs economics and finance renewable energy energy and electricity systems and block chain Presenting cutting edge methodologies with real world application problems and their solutions the book is useful for researchers managers executives students academicians practicing scientists and decision makers from all around the globe It offers the academic and the applied communities a compendium and a research resource with significant insights and inspiration for innovative scientific education investigation and collaboration to overcome hard problems among the emerging challenges today and in the future

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Electrical Estimating Methods Wayne J. Del Pico, 2014-10-22 Simplify the estimating process with the latest data materials and practices Electrical Estimating Methods Fourth Edition is a comprehensive guide to estimating electrical costs with data provided by leading construction database RS Means The book covers the materials and processes encountered by the modern contractor and provides all the information professionals need to make the most precise estimate The fourth edition has been updated to reflect the changing materials techniques and practices in the field and provides the most recent Means cost data available The complexity of electrical systems can make accurate estimation difficult but this guide contains all the necessary information in one place An electrical estimate represents the total cost for materials labor overhead and profit but accuracy is virtually impossible without a basic knowledge of the field and real world experience in the type of work required Inaccurate estimates lead to problems with customer satisfaction which often create payment issues A thorough complete and accurate estimate is in the best interest of all parties involved in the work Electrical Estimating Methods provides more than just data Detailed discussions about the work itself help highlight factors that may escape notice and access to the latest cost data helps tie everything together Features include Discussion of current equipment materials and processes Means data for both residential and commercial projects Case studies that illustrate best practices Online access to the latest Means data for fast access on the job The book discusses specific situations as well as general practices and provides comprehensive guidance to the creation of a true current estimation of costs For electrical contractors and estimators Electrical Estimating Methods

contains must have content that simplifies the estimating process *Practical Statistics for the Analytical Scientist* Peter Bedson, Trevor J Duguid Farrant, 2021-04-08 Analytical chemists must use a range of statistical tools in their treatment of experimental data to obtain reliable results *Practical Statistics for the Analytical Scientist* is a manual designed to help them negotiate the daunting specialist terminology and symbols Prepared in conjunction with the Department of Trade and Industry's Valid Analytical Measurement VAM programme this volume covers the basic statistics needed in the laboratory It describes the statistical procedures that are most likely to be required including summary and descriptive statistics calibration outlier testing analysis of variance and basic quality control procedures To improve understanding many examples provide the user with material for consolidation and practice The fully worked answers are given both to check the correct application of the procedures and to provide a template for future problems *Practical Statistics for the Analytical Scientist* will be welcomed by practising analytical chemists as an important reference for day to day statistics in analytical chemistry *Submission and evaluation of pesticide residues data for the estimation of maximum residue levels in food and feed* Food and Agriculture Organization of the United Nations, 2018-09-04 This manual incorporates all relevant information and principles that are currently used by the Joint Meeting on Pesticide Residues to estimate maximum residue levels supervised trials median residue values and dietary risk from pesticide residues *Applied Groundwater Modeling* Mary P. Anderson, William W. Woessner, Randall J. Hunt, 2015-08-13 This second edition is extensively revised throughout with expanded discussion of modeling fundamentals and coverage of advances in model calibration and uncertainty analysis that are revolutionizing the science of groundwater modeling The text is intended for undergraduate and graduate level courses in applied groundwater modeling and as a comprehensive reference for environmental consultants and scientists engineers in industry and governmental agencies Explains how to formulate a conceptual model of a groundwater system and translate it into a numerical model Demonstrates how modeling concepts including boundary conditions are implemented in two groundwater flow codes MODFLOW for finite differences and FEFLOW for finite elements Discusses particle tracking methods and codes for flowpath analysis and advective transport of contaminants Summarizes parameter estimation and uncertainty analysis approaches using the code PEST to illustrate how concepts are implemented Discusses modeling ethics and preparation of the modeling report Includes Boxes that amplify and supplement topics covered in the text Each chapter presents lists of common modeling errors and problem sets that illustrate concepts *Commerce Business Daily*, 1998-08

Maths for Chemistry Paul Monk, Lindsey J. Munro, 2010-04-29 *Maths for Chemistry* recognizes the challenges faced by many students in equipping themselves with the maths skills needed to gain a full understanding of chemistry offering a carefully structured and steadily paced introduction to the essential mathematical concepts all chemistry students should master **Heat Pump Systems with Vertical Ground Heat Exchanger and Uncovered Solar Thermal Collectors** Bertram, Erik, 2015

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Table of Contents Manual J Calculation Spreadsheet

1. Understanding the eBook Manual J Calculation Spreadsheet
 - The Rise of Digital Reading Manual J Calculation Spreadsheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Manual J Calculation Spreadsheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Manual J Calculation Spreadsheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Manual J Calculation Spreadsheet
 - Personalized Recommendations
 - Manual J Calculation Spreadsheet User Reviews and Ratings
 - Manual J Calculation Spreadsheet and Bestseller Lists
5. Accessing Manual J Calculation Spreadsheet Free and Paid eBooks
 - Manual J Calculation Spreadsheet Public Domain eBooks
 - Manual J Calculation Spreadsheet eBook Subscription Services
 - Manual J Calculation Spreadsheet Budget-Friendly Options

6. Navigating Manual J Calculation Spreadsheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Manual J Calculation Spreadsheet Compatibility with Devices
 - Manual J Calculation Spreadsheet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Manual J Calculation Spreadsheet
 - Highlighting and Note-Taking Manual J Calculation Spreadsheet
 - Interactive Elements Manual J Calculation Spreadsheet
8. Staying Engaged with Manual J Calculation Spreadsheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Manual J Calculation Spreadsheet
9. Balancing eBooks and Physical Books Manual J Calculation Spreadsheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Manual J Calculation Spreadsheet
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Manual J Calculation Spreadsheet
 - Setting Reading Goals Manual J Calculation Spreadsheet
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Manual J Calculation Spreadsheet
 - Fact-Checking eBook Content of Manual J Calculation Spreadsheet
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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