

# 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>Enthalpy</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 Load Calculation Spreadsheet

**K Morrison**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

## **Manual J Load Calculation Spreadsheet:**

**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 **Geothermal Heat Pumps: Installation Guide** Stephen K. Ewings, 2008-10

*Manual on Elastic-plastic Fracture* James Albert Joyce, 1996 **Cost Estimator's Reference Manual** Rodney D. Stewart, Richard M. Wyskida, James D. Johannes, 1995-04-03 In today's hypercompetitive global marketplace accurate cost estimating is crucial to bottom line results Nowhere is this more evident than in the design and development of new products and services Among managing engineers responsible for developing realistic cost estimates for new product designs the number one source of information and guidance has been the Cost Estimator's Reference Manual Comprehensive authoritative and practical the Manual instructs readers in the full range of cost estimating techniques and procedures currently used in the fields of development testing manufacturing production construction software general services government contracting engineering services scientific projects and proposal preparation The authors clearly explain how to go about gathering the data essential to preparing a realistic estimate of costs and guide the reader step by step through each procedure This new Second Edition incorporates a decade of progress in the methods procedures and strategies of cost estimating All the material has been updated and five new chapters have been added to reflect the most recent information on such increasingly important topics as activity based costing software estimating design to cost techniques and cost implications of new concurrent engineering and systems engineering approaches to projects Indispensable to virtually anyone whose work requires accurate cost estimates the Cost Estimator's Reference Manual will be especially valuable to engineers estimators accountants and contractors of products projects processes and services to both government and industry The essential ready reference for the techniques methods and procedures of cost estimating **COST ESTIMATOR'S REFERENCE MANUAL** Second Edition Indispensable for anyone who depends on accurate cost estimates for engineering projects the Cost Estimator's Reference Manual guides the user through both the basic and more sophisticated aspects of the estimating process Authoritative and comprehensive the Manual seamlessly integrates the many functions accounting financial statistical and management of modern cost estimating practice Its broad coverage includes estimating procedures applied to such areas as Production Software Development General services Testing Government contracting Manufacturing Engineering Proposal preparation Scientific projects Construction This updated and expanded Second Edition incorporates all the most important recent developments in cost estimating such as activity based costing software estimating design to cost techniques computer

aided estimating tools concurrent engineering and life cycle costing For engineers estimators accountants planners and others who are involved in the cost aspects of projects the Cost Estimator's Reference Manual is an invaluable information source that will pay for itself many times over      **Manual of Environmental Microbiology** Cindy H. Nakatsu, Robert V. Miller, Suresh D. Pillai, 2020-08-11 The single most comprehensive resource for environmental microbiology Environmental microbiology the study of the roles that microbes play in all planetary environments is one of the most important areas of scientific research The Manual of Environmental Microbiology Fourth Edition provides comprehensive coverage of this critical and growing field Thoroughly updated and revised the Manual is the definitive reference for information on microbes in air water and soil and their impact on human health and welfare Written in accessible clear prose the manual covers four broad areas general methodologies environmental public health microbiology microbial ecology and biodegradation and biotransformation This wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the international community Specifically this new edition of the Manual Contains completely new sections covering microbial risk assessment quality control and microbial source tracking Incorporates a summary of the latest methodologies used to study microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments The Manual of Environmental Microbiology is an essential reference for environmental microbiologists microbial ecologists and environmental engineers as well as those interested in human diseases water and wastewater treatment and biotechnology      ASHRAE Handbook, 2005

*Energy Saving Guide* Zolton Cohen, 2006 ra This handy book teaches you how to conserve fuel and save money with your car and in your home ra It gives useful suggestions on driving efficiently and valuable tips on auto maintenance ra It provides a number of pointers on home heating air conditioning plumbing electricity water conservation and other essential housing needs ra It also describes the best ways to seal your home to keep it warm in winter and cool in summer      **Offshore Electrical Engineering Manual** Geoff MacAngus-Gerrard, 2017-11-06 Offshore Electrical Engineering Manual Second Edition is for electrical engineers working on offshore projects who require detailed knowledge of an array of equipment and power distribution systems The book begins with coverage of different types of insulation hot spot temperatures temperature rise ambient air temperatures basis of machine ratings method of measurement of temperature rise by resistance measurement of ambient air temperature This is followed by coverage of AC generators automatic voltage regulators AC switchgear transformers and programmable electronic systems The emphasis throughout is on practical ready to apply techniques that yield immediate and cost effective benefits The majority of the systems covered in the book operate at a nominal voltage of 24 y dc and although it is not necessary for each of the systems to have separate battery and battery charger systems the grouping criteria require more detailed discussion The book also provides information on equipment such as dual chargers and batteries for certain vital systems switchgear tripping closing and engine start batteries which are

dedicated to the equipment they supply In the case of engines which drive fire pumps duplicate charges and batteries are also required Packed with charts tables and diagrams this work is intended to be of interest to both technical readers and to general readers It covers electrical engineering in offshore situations with much of the information gained in the North Sea Some topics covered are offshore power requirements generator selection process drivers and starting requirements control and monitoring systems and cabling and equipment installation Discusses how to perform inspections of electrical and instrument systems on equipment using appropriate regulations and specifications Explains how to ensure electrical systems components are maintained and production is uninterrupted Demonstrates how to repair modify and install electrical instruments ensuring compliance with current regulations and specifications Covers specification management and technical evaluation of offshore electrical system design Features evaluation and optimization of electrical system options including DC AC selection and offshore cabling designs

*Perceived Exertion Laboratory Manual* Luke Haile, Michael Gallagher, Jr., Robert J. Robertson, 2014-11-07 This manual provides laboratory based learning experiences in perceptually and psychosocially linked exercise assessment prescription and programming The primary pedagogic outcome is the ability to use applied theory and practice in perceptual and psychosocial exercise assessment and program design to promote the adoption and maintenance of a physically active lifestyle enhancing overall health fitness Perceptual and psychosocial variables are presented in individual stand alone laboratory modules that can supplement existing curricula such as exercise and sport psychology exercise physiology exercise testing and prescription and exercise training and conditioning In addition the complete modular set has a conceptual flow that allows its presentation as an entire laboratory based course The laboratory modules are divided into three primary units assessment theoretical constructs scales and procedures tests prescription self regulation performance and program evaluation The manual uses a unique format in which case studies are embedded in the conceptual flow of each lab module facilitating translation of laboratory results to real world application The manual concludes with a discussion of perceptually and psychosocially linked exercise prescription and programming applications in public health such as program monitoring and adherence

*Modern Veterinary Practice* ,1987

**ASHRAE Journal** ,1995

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**Single Piles in Liquefiable Ground** Rui Wang, 2016-03-17 This thesis focuses on the seismic response of piles in liquefiable ground It describes the design of a three dimensional unified plasticity model for large post liquefaction shear

deformation of sand formulated and implemented for parallel computing It also presents a three dimensional dynamic finite element analysis method for piles in liquefiable ground developed on the basis of this model Employing a combination of case analysis centrifuge shaking table experiments and numerical simulations using the proposed methods it demonstrates the seismic response patterns of single piles in liquefiable ground These include basic force resistance mode kinematic and inertial interaction coupling mechanism and major influence factors It also discusses a beam on the nonlinear Winkler foundation BNWF solution and a modified neutral plane solution developed and validated using centrifuge experiments for piles in consolidating and reconsolidating ground Lastly it studies axial pile force and settlement during post earthquake reconsolidation showing pile axial force to be irrelevant in the reconsolidation process while settlement is process dependent

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## **Table of Contents Manual J Load Calculation Spreadsheet**

1. Understanding the eBook Manual J Load Calculation Spreadsheet
  - The Rise of Digital Reading Manual J Load Calculation Spreadsheet
  - Advantages of eBooks Over Traditional Books
2. Identifying Manual J Load 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 Load Calculation Spreadsheet
  - User-Friendly Interface
4. Exploring eBook Recommendations from Manual J Load Calculation Spreadsheet
  - Personalized Recommendations
  - Manual J Load Calculation Spreadsheet User Reviews and Ratings
  - Manual J Load Calculation Spreadsheet and Bestseller Lists
5. Accessing Manual J Load Calculation Spreadsheet Free and Paid eBooks

- Manual J Load Calculation Spreadsheet Public Domain eBooks
- Manual J Load Calculation Spreadsheet eBook Subscription Services
- Manual J Load Calculation Spreadsheet Budget-Friendly Options
- 6. Navigating Manual J Load Calculation Spreadsheet eBook Formats
  - ePub, PDF, MOBI, and More
  - Manual J Load Calculation Spreadsheet Compatibility with Devices
  - Manual J Load Calculation Spreadsheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Manual J Load Calculation Spreadsheet
  - Highlighting and Note-Taking Manual J Load Calculation Spreadsheet
  - Interactive Elements Manual J Load Calculation Spreadsheet
- 8. Staying Engaged with Manual J Load Calculation Spreadsheet
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Manual J Load Calculation Spreadsheet
- 9. Balancing eBooks and Physical Books Manual J Load Calculation Spreadsheet
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Manual J Load Calculation Spreadsheet
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Manual J Load Calculation Spreadsheet
  - Setting Reading Goals Manual J Load Calculation Spreadsheet
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Manual J Load Calculation Spreadsheet
  - Fact-Checking eBook Content of Manual J Load 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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