

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: _____ |
|--|--------------------------------|

| 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 |
| Entering Air Temp. = | 81.94°F | 64.84°F |
| Leaving Air Temp. = | 55.00°F | 54.50°F |
| 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 | | | |
| 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 | = | 180.0°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 | = | 180.0°F | |
| Hot Water Flow (GPM) | = | 123.1 | |

Manual J Calculation Example

James E. Brumbaugh

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

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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

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

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

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Refrigeration & Air Conditioning 101 Dennis P. Ukele, 2022-11-03 After over forty years of the refrigeration and air conditioning industry many changes have occurred In order for one to keep up to date most technical documents have not been seriously updated for current accuracy This volume attempts to modernize some of the values that have undergone change over the years

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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

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Table of Contents Manual J Calculation Example

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

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