

# 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 Calculation Example

**Terry C. Jones**

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

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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

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