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BLD #

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Valuation

Residential HVAC Worksheet

Manual J / S Summary

NOTE: The load calculation must be calculated on a room basis. Room loads are a mandatory requirement for making Manual D duct sizing calculations. This sheet has been developed for homes built in Utah's dry climates- do not use for other climate conditions.

Design Information

Project	Location
---------	----------

Design Conditions

Htg	Cig	Altitude	ft	
Outside db	°f	°f	Entering wb	°f
Inside db	°f	°f	Assume no higher than 63 °f unless there is ventilation air or significant duct leakage or heat gain	
Design TD	°f	°f	If design conditions used are not those listed in Table 1 / 1A Manual J, please justify.	

Infiltration

Method	Construction quality	# of fireplaces
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Summary

Manual J heat loss	btuh	Heating fan	CFM	Htg design TD	°f
Temp rise range	°f	Latent gain	btuh	Total gain	btuh
Manual J sensible gain	btuh	Cooling fan	CFM		
Calculated SHR		Use SHR to determine cooling CFM / ton			

Heating Equipment

Furnace manufacturer	Model #	AFUE	
Sea level input	btuh	Output	Altitude adjusted output
<input type="checkbox"/> Multistage	If yes, provide	Altitude adjusted lowest output	

If "adjusted output" is greater than 1.4 times the "total heating load", please justify

Cooling Equipment

AC manufacturer	Model #	SEER			
Total capacity	btuh	Sensible capacity	btuh	Latent capacity	btuh
Evaporator coil manufacturer	Model #				

Metering ☐ Multistage ☐ TXV Actual SEER rating w/ selection coil, furnace, & metering

Attach manufacturer's data showing actual cooling capacity and actual SEER using these components

If "cooling capacity" is greater than 1.15 times the "total heating load", please justify

Manual J Long Form

Rachel Sandford



Manual J Long Form:

Manual J Long Form Book Review: Unveiling the Power of Words

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Table of Contents Manual J Long Form

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

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