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Updated 12/2012

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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
--------	----------------------	-----------------

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 1 Forms

Mike Jess

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

Manual J 1 Forms:

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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