

# **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.

## **Design Information:**

Project: \_\_\_\_\_ Location: \_\_\_\_\_

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## **Design Conditions**

	<b>Htg</b>	<b>Clg</b>		
Outside db (°F)	_____	_____	Altitude:	_____ ft.
Inside db (°F)	_____	_____	Entering wb (°F)	_____ °F
Design TD (°F)	_____	_____	(Assume 63°F unless there is ventilation air or significant duct leakage or heat gain)	

If design conditions used are not those listed in Table 1/1A Manual J please justify.

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## **Infiltration:**

Method: \_\_\_\_\_ Construction Quality: \_\_\_\_\_ # Fireplaces (open fire box): \_\_\_\_\_

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## **Summary:**

Manual J Heat Loss: \_\_\_\_\_ BTUh Heating Fan: \_\_\_\_\_ CFM Htg Design TD: \_\_\_\_\_ °F  
Manufacturer's Temperature Rise Range: \_\_\_\_\_ °F to \_\_\_\_\_ °F  
Manual J - Sensible Gain: \_\_\_\_\_ BTUh Latent Gain: \_\_\_\_\_ BTUh Total Gain: \_\_\_\_\_ BTUh  
Calculated SHR \_\_\_\_\_ Use SHR to determine cooling CFM/ton Cooling Fan: \_\_\_\_\_ CFM

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## **Heating Equipment:**

Furnace Manufacturer: \_\_\_\_\_ Model #: \_\_\_\_\_ AFUE: \_\_\_\_\_  
*Sea Level:* Input: \_\_\_\_\_ BTUh Output: \_\_\_\_\_ Altitude Adjusted Output \_\_\_\_\_  
Multi-stage: Yes \_\_\_ No \_\_\_ *If YES, provide altitude adjusted lowest Output* \_\_\_\_\_  
If Adjusted Output is greater than 1.4 times the Total Heating Load, please justify: \_\_\_\_\_

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## **Cooling Equipment:**

A/C Manufacturer: \_\_\_\_\_ Model #: \_\_\_\_\_ SEER: \_\_\_\_\_  
Total Capacity: \_\_\_\_\_ BTUh Sensible Capacity: \_\_\_\_\_ BTUh Latent Capacity: \_\_\_\_\_ BTUh  
Evap. Coil Manufacturer: \_\_\_\_\_ Model #: \_\_\_\_\_ Metering: Orifice \_\_\_ TXV \_\_\_  
Actual SEER rating with selected coil, furnace and metering. SEER: \_\_\_\_\_  
*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 Cooling Load, please justify: \_\_\_\_\_

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