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BLD #

Received by

Date

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 1 Forms

**CL Gary**



## 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 *Energy Research and Development and Small Business: how much? How much more from small business? How soon?* United States. Congress. Senate. Select Committee on Small Business, 1975 **Energy Research and Development and Small Business** United States. Congress. Senate. Select Committee on Small Business, 1975 *Monthly Catalogue, United States Public Documents*, 1984 **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents, 1984 The United States Catalog Mary Burnham, Carol Hurd, 1928 *The Hospital Corps Quarterly* United States. Navy Department. Bureau of Medicine and Surgery, 1923 The United States Catalog, 1900 *The American Catalogue*, 1880 American national trade bibliography The American Catalog, 1896 *Report of the Minister of Education*, 1921 *National Union Catalog*, 1973 Includes entries for maps and atlases Report of the Minister of Education Ontario. Department of Education, 1918 **American Book Publishing Record**, 1996 **The Publishers' Trade List Annual**, 1877 **A Cumulated Index to the Books of ..**, 1900 **Report** Michigan State University. Library, 1903 **Brotherhood of Locomotive Firemen and Enginemen's Magazine**, 1916 Bulletin - American Railway Engineering Association American Railway Engineering and Maintenance of Way Association, 1919 Vols for 19 include the directory issue of the American Railway Engineering Association **The Steam-engine and Other Steam-motors: Form, construction, and working of the engine; the steam turbine** Robert Culbertson Hays Heck, 1913

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