

## Location

## Design Information

Weather: Auburn, AL, US

outside 99%/1% temps

### Winter Design Conditions

Outside db 22 °F  
Inside db 70 °F  
Design TD 48 °F

### Summer Design Conditions

Outside db 93 °F  
Inside db 75 °F  
Design TD 18 °F  
Daily range M  
Relative humidity 50 %  
Moisture difference 45 gr/lb

thermostat set point (inside)

total heating load  
at peak conditions

### Heating Summary

|                      |            |
|----------------------|------------|
| Structure            | 58517 Btuh |
| Ducts                | 1713 Btuh  |
| Central vent (0 cfm) | 0 Btuh     |
| Humidification       | 0 Btuh     |
| Piping               | 0 Btuh     |
| Equipment load       | 60230 Btuh |

### Sensible Cooling Equipment Load Sizing

|                         |            |
|-------------------------|------------|
| Structure               | 34536 Btuh |
| Ducts                   | 837 Btuh   |
| Central vent (0 cfm)    | 0 Btuh     |
| Blower                  | 0 Btuh     |
| Use manufacturer's data | n          |
| Rate/swing multiplier   | 0.98       |
| Equipment sensible load | 34665 Btuh |

### Infiltration

| Method               | Simplified |
|----------------------|------------|
| Construction quality | Average    |
| Fireplaces           | 0          |

### Latent Cooling Equipment Load Sizing

|                       |           |
|-----------------------|-----------|
| Structure             | 4388 Btuh |
| Ducts                 | 367 Btuh  |
| Central vent          | 0 Btuh    |
| Equipment latent load | 4754 Btuh |

Equipment total load 39420 Btuh  
Req. total capacity at 0.78 SHR 3.7 ton

total house size

|                  | Heating | Cooling |
|------------------|---------|---------|
| Area (ft²)       | 3552    | 3552    |
| Volume (ft³)     | 37728   | 37728   |
| Air changes/hour | 0.37    | 0.19    |
| Equiv. AVF (cfm) | 233     | 119     |

# Manual J Example

**E. W. Dickinson**



## Manual J Example:

*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

**HUD Minimum Property Standards: Solar heating and domestic hot water systems** Center for Faith-Based and Community Initiatives (United States. Department of Labor), 1973 *Solar Energy Technology Handbook* E. W. Dickinson, 2018-05-04 The handbook for convenient use is divided into eight main units 1 The Solar Resource 2 Solar Thermal Collectors 3 Photovoltaics 4 Bioconversion 5 Wind Energy 6 Solar Energy Storage Systems 7 Applications of Solar Energy 8 Non technical Issues In addition there are three Appendixes containing unit conversion tables and useful solar data It became obvious early in this project that if proper coverage were to be given each of these areas it would be necessary to divide the handbook into two volumes The first six units constitute Part A Engineering Fundamentals and the last two units constitute Part B Applications Systems Design and Economics These volumes have been prepared primarily as reference books but it is felt that many of the sections will prove useful for practicing engineers scientists and students

Intermediate Minimum Property Standards for Solar Heating and Domestic Hot Water Systems United States. Department of Housing and Urban Development, 1977 Making the Most of Energy in Real Estate, 1980 Guidelines are presented for implementing a one or two day workshop entitled Making the Most of Energy in Real Estate Energy information is presented so that the participants in the real estate sector are well informed about energy matters so that real estate decisions will reflect the scarcity of dwindling energy supplies A step by step guide for persons implementing the workshop is given and checklists and forms which may be useful to workshop planners at various stages are shown Examples of the kinds of promotional materials necessary for the workshop are described Lesson plans for the use of nine slide tape shows which are available for the workshop are given Lesson by lesson lists of all handouts are presented The script

necessary to present the information on the slide tape shows is presented in this guideline From Energy Citations **CONS**, 1980 *Green Building: An Engineering Approach to Sustainable Construction* Christian M. Carrico, 2025-06-05 Green Building An Engineering Approach to Sustainable Construction fills a void in green building which has good textbook options for practitioners architects and sustainability experts but not an engineering focused textbook focused on green building This new text takes an engineering approach to evaluating green building techniques systems and materials The book examines the built environment from inside out looking at minimizing environmental impacts while also considering the economics and energy use and efficiency While not a test prep book it will provide the knowledge foundation that will help prepare the

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