

**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 Construction quality  
Fireplaces Simplified Average 0

**Latent Cooling Equipment Load Sizing**

Structure **total cooling load at peak conditions** 4388 Btuh  
Ducts 367 Btuh  
Central vent 0 Btuh  
Equipment latent load 4754 Btuh

**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

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

# Manual J Calculation Example

**Yicheng Fang**



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