

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

Annelies Wilder-Smith



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