

## 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 |

### Infiltration

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

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     |

### 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 |

### 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 0.76 SHR | 3.7 ton    |

total cooling load at  
peak conditions

# Ashrae Manual J Calculator

**Jin-Ying Zhang**



## Ashrae Manual J Calculator:

## The Enigmatic Realm of **Ashrae Manual J Calculator**: Unleashing the Language is Inner Magic

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